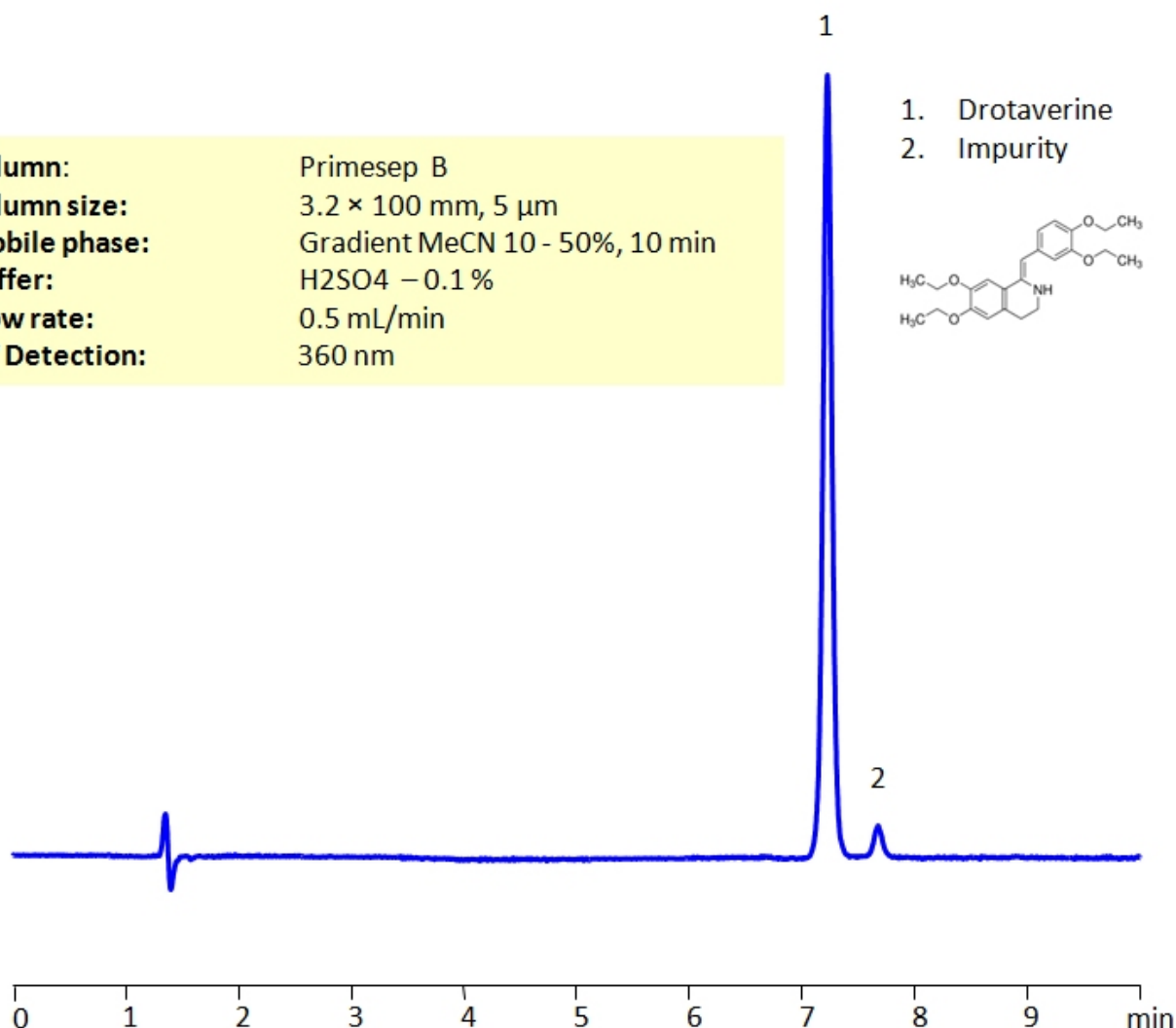


# HPLC Method For Analysis of Drotaverine (No-spa) on Primesep B Column

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

## Chromatogram

**Column:** Primesep B  
**Column size:** 3.2 × 100 mm, 5 µm  
**Mobile phase:** Gradient MeCN 10 - 50%, 10 min  
**Buffer:** H<sub>2</sub>SO<sub>4</sub> – 0.1 %  
**Flow rate:** 0.5 mL/min  
**UV Detection:** 360 nm



## Description

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

Drotaverine (known under the brand name No-Spa in Europe) is an antispasmodic commonly encountered in the hospital setting to increase cervical dilation during childbirth. It is also commonly used to alleviate gastrointestinal and genitourinary smooth muscle spasms. There have been issues with the drug being counterfeited or smuggled into countries that have yet to approve it, so having an HPLC method to detect the drug and separate it from impurities and other unwanted compounds is a must for the pharmaceutical community. Its chemical formula is C<sub>24</sub> H<sub>31</sub> NO<sub>4</sub> .

Drotaverine can be detected in the high UV regime. Using a Primesep B reverse-phase column and a mobile phase consisting of water and an acetonitrile (MeCN) gradient with a sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) buffer, drotaverine can be retained, separated (from impurities and other unwanted compounds). This analysis method can be UV detected at 360 nm.

## Method Parameters

|                            |                                |
|----------------------------|--------------------------------|
| <b>Mobile Phase</b>        | Gradient MeCN – 10-50%, 10 min |
| <b>Buffer</b>              | H2SO4 – 0.1%                   |
| <b>Flow Rate</b>           | 0.5 ml/min                     |
| <b>Detection</b>           | UV 245, 305, 360 nm            |
| <b>Class of Compounds</b>  | Drug                           |
| <b>Analyzing Compounds</b> | Drotaverine                    |

#### HPLC Column Used

**Primesep B, 3.2 x 100 mm, 5 µm, 100 Å, dual ended**

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