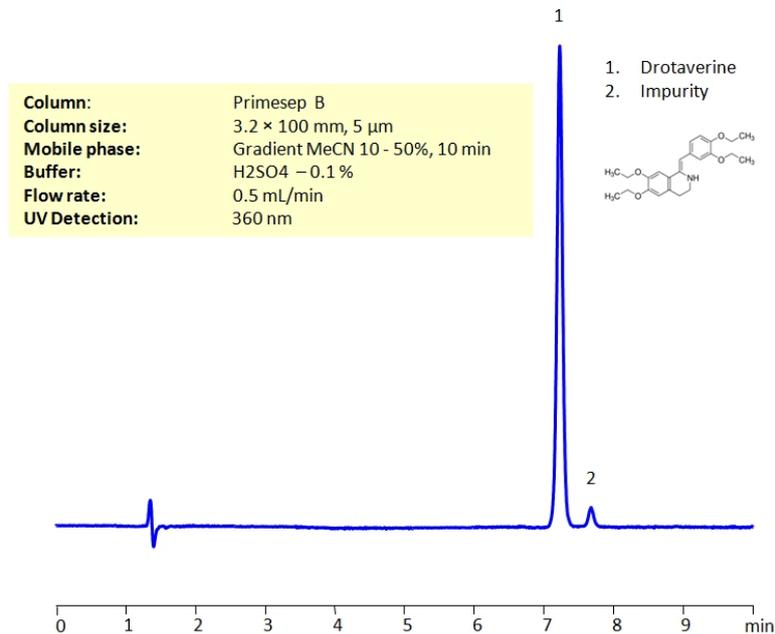


HPLC Method For Analysis of Drotaverine (No-spa) on Primesep B Column



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. It's chemical formula is C₂₄H₃₁NO₄ .

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 (H₂SO₄) buffer, drotaverine can be retained, separated (from impurities and other unwanted compounds). This analysis method can be UV detected at 360 nm.

Method Parameters

Column	Primesep B, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 10-50%, 10 min
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	0.5 mL/min
Detection	UV 245, 305, 360 nm

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