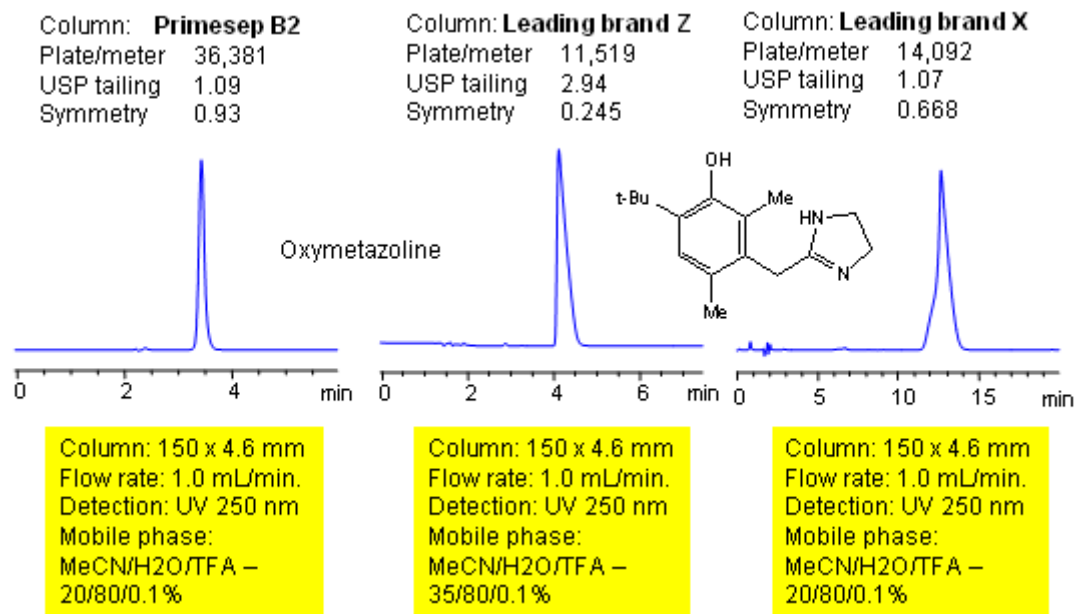


Improved Peak Shape of a Basic Compound on Primesep B2 Column

<https://sielc.com/Application-Improved-Peak-Shape-of-A-Basic-Compound-on-Primesep-B2-Column>

Chromatogram



Description

Primesep B2 shows superior efficiency, symmetry, and peak shape for a hydrophilic basic compound compared to two leading reversed-phase C18 columns. Primesep B2 contains an embedded basic functional group that shields the underlying silica by ionic repulsion with the analyte. On reversed-phase columns exposed active silanols provide unintended polar interactions with basic analytes that lead to tailing. The HPLC separation uses a simple mobile phase of water, acetonitrile (MeCN, ACN) and trifluoroacetic acid (TFA) with UV detection at 250 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	TFA
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements, Amino acid
Analyzing Compounds	Oxymetazoline

HPLC Column Used

Primesep B2, 4.6x150 mm, 5 µm, 100A

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