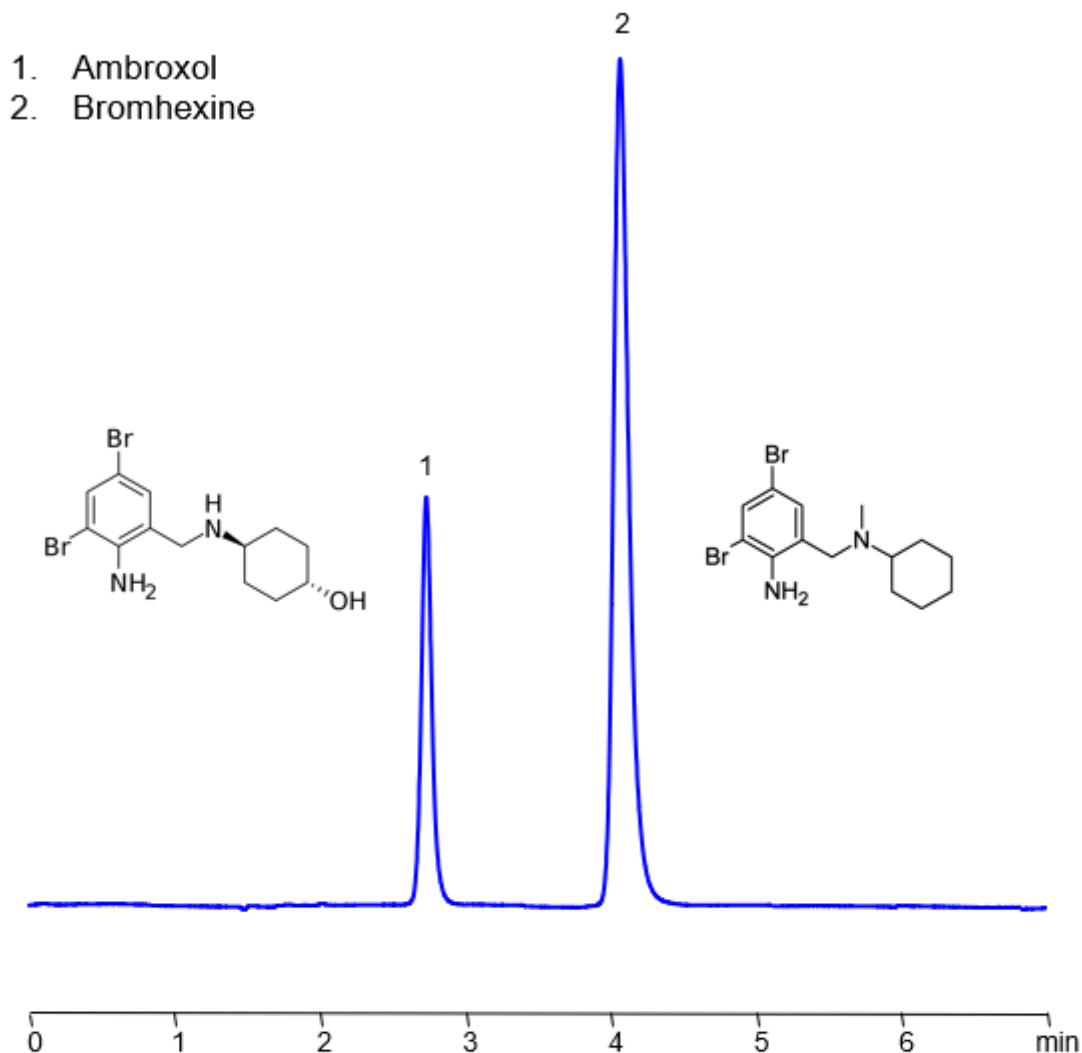


HPLC Method for Separation of Bromhexine and Ambroxol on Primesep 200 Column

<https://sielc.com/hplc-determination-of-bromhexine-and-ambroxol>

Chromatogram



Column:	Primesep 200
Column size:	4.6 × 150 mm, 5 µm
Column part number:	200-46.150.0510
Mobile phase:	MeCN/H ₂ O – 60/40%
Buffer:	H ₂ SO ₄ – 0.05%
Flow rate:	1.0 mL/min
Detection:	UV 210, 245, 315 nm

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Bromhexine , Bromhexine hydrochloride , Ambroxol Hydrochloride , Ambroxol .

Ambroxol is a well-known expectorant with the chemical formula $C_{13}H_{18}Br_2N_2O$. It targets and breaks down phlegm through inhibiting neuronal Na^+ channels. It also has anti-inflammatory properties. It has not yet been approved for use by the USA Food and Drug Administration. You can find detailed UV spectra of Ambroxol and information about its various lambda maxima by visiting the following link.

Bromhexine is a popular mucolytic with the chemical formula $C_{14}H_{20}Br_2N_2$. It is used to treat excessive mucus found in the respiratory system from a variety of illnesses. It works through increasing the production of serous mucus, which thins phlegm. This helps transport phlegm out of the upper respiratory tract. You can find detailed UV spectra of Bromhexine and information about its various lambda maxima by visiting the following link.

Bromhexine, Bromhexine hydrochloride, Ambroxol Hydrochloride, Ambroxol 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. This analysis method can be detected in the low UV regime at 210 nm, 245 nm, and 315 nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 60/40%
Buffer	H ₂ SO ₄ – 0.05%
Flow Rate	1.0 ml/min
Detection	UV 210, 245, 315 nm
Peak Retention Time	2.81, 4.22 min
Class of Compounds	Drugs
Analyzing Compounds	Bromhexine, Bromhexine hydrochloride, Ambroxol Hydrochloride, Ambroxol

HPLC Column Used

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

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