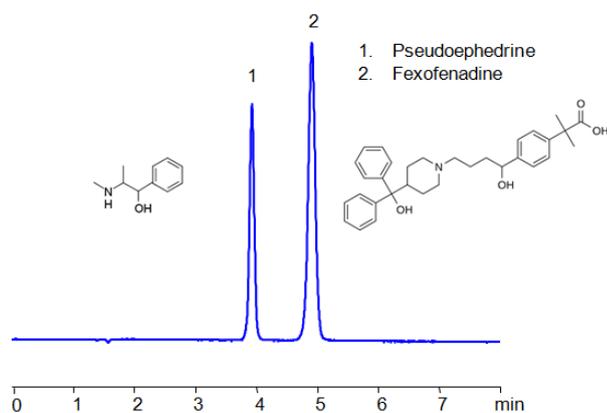


HPLC Method for Analysis of Pseudoephedrine and Fexofenadine from Allegra D Tablet on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 65/35%
Buffer:	H ₂ SO ₄ – 0.2%
Flow rate:	1.0 mL/min
Detection:	UV 200 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Pseudoephedrine (PSE) , Fexofenadine hydrochloride .

Pseudoephedrine is one of the most popular decongestant drugs on the market, in part due to its efficacy and in part due to its status as an amphetamine. It has the chemical formula C₁₀H₁₅NO . It has been reported to have been misused as a psychostimulant, since it is accessible over-the-counter. It was a banned substance by the International Olympic Committee (IOC) until 2004, but was banned again in 2010.

Fexofenadine is a common antihistamine with the chemical formula C₃₂H₃₉NO₄ . It is used to treat hives, itching, and hay fever. Pseudoephedrine and Fexofenadine can be separated, retained, and analyzed on a Primesep 100 mixed-mode column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid (H₂SO₄) buffer. This analysis method can be UV detected at 200 nm with high resolution and peak symmetry.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 65%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-pseudoephedrine-and-fexofenadine>