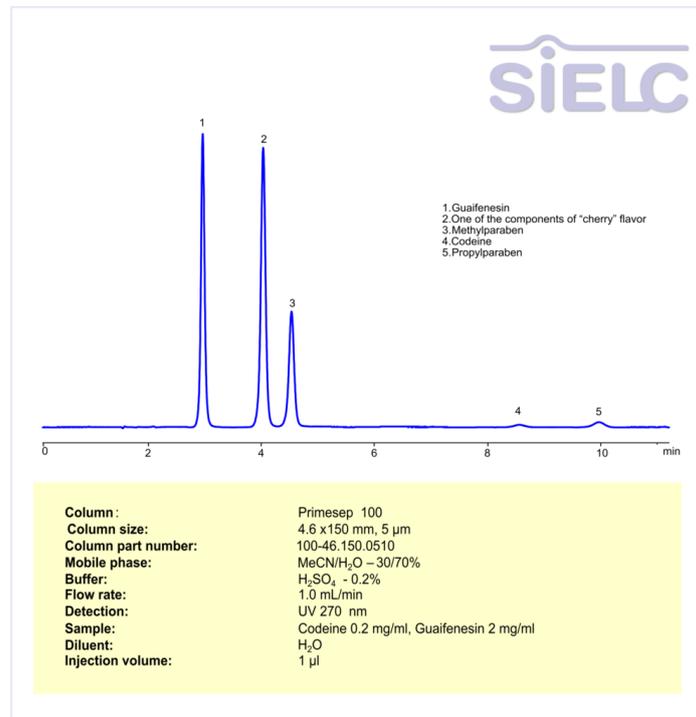


HPLC Method for Analysis of Codeine and Guaifenesin in Cough syrup on Primesep 100 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Codeine , Guaifenesin

Codeine is a pain reliever and cough suppressant . It belongs to the opioid family (like morphine, but milder). Guaifenesin is an expectorant , which helps loosen mucus in your chest so you can cough it up more easily.

Codeine , Guaifenesin can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and sulfuric acid. Detection is performed using UV at 270 nm.

*LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 30%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 270 nm

Quelle: <https://sielc.com/hplc-ms-method-for-analysis-codeine-and-guaifenesin>