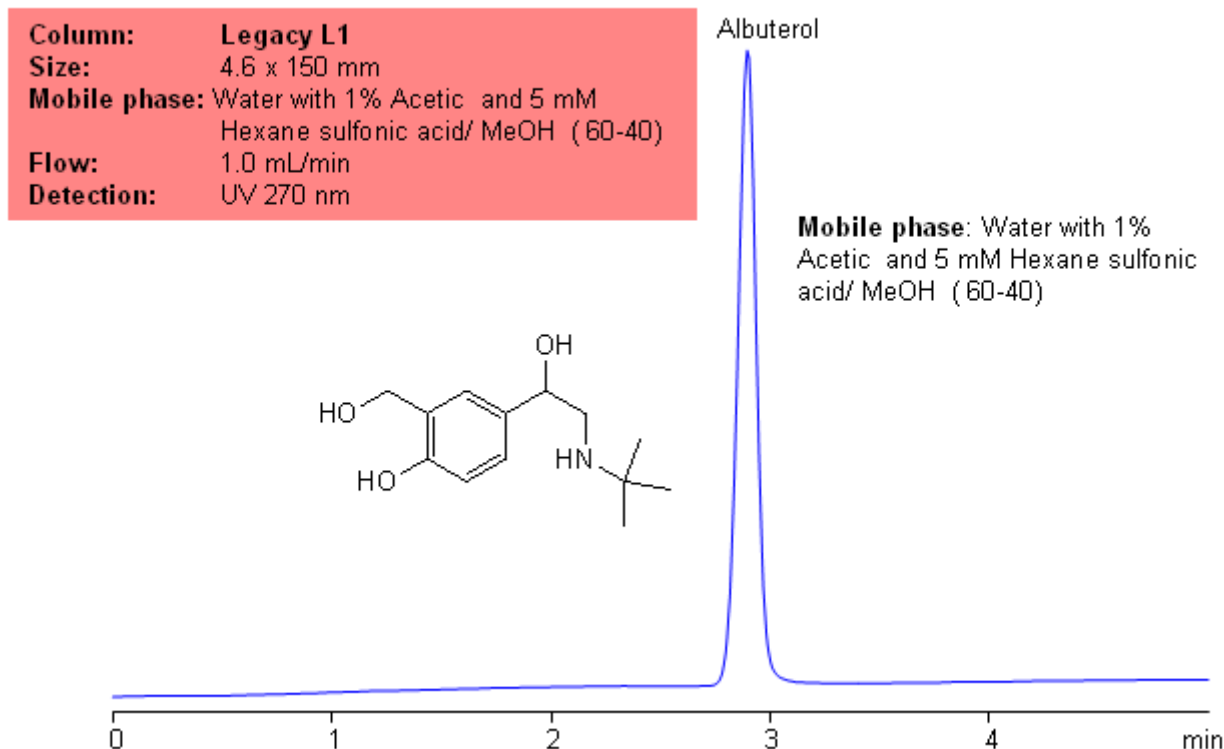


# USP Analysis of Albuterol Using a Legacy L1 Column

<https://sielc.com/Application-USP-Analysis-of-Albuterol-Using-a-Legacy-L1-Column>

## Chromatogram



## Description

Application Notes: Albuterol is a well known drug used to treat bronchospasms. Albuterol come in many different forms, ranging from nebulizer to tablets. Albuterol is an important drug in combatting breathing problems. The USP methods for albuterol dictate that albuterol should not contain less than 98.5% and no more than 101% calculated on a dried basis. The USP HPLC method for the separation of albuterol was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing C18 ligand. Support for the material is spherical silica gel with particles size 3-10 um and pore size of 100-120A. Resolution between critical pairs corresponds to rules and specifications of USP.

Application Columns: Legacy L1 C18 HPLC column · Application compounds: Albuterol · Mobile phase: Water with 1% acetic acid and 5mM hexane sulfonic acid and MeOH (60:40) · Detection technique: UV · Reference: USP35: NF30

## Method Parameters

<b>Mobile Phase</b>	Water with 1% Acetic and 5 mM Hexane sulfonic acid/ MeOH (60-40)
<b>Buffer</b>	Acetic Acid, Hexane sulfonic acid
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV, 270 nm
<b>Class of Compounds</b>	Drug, Bronchodilator, Hydrophobic, Ionizable

Analyzing Compounds

Albuterol

HPLC Column Used

**Legacy L1, 4.6x150 mm, 5 µm, 100A**

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