

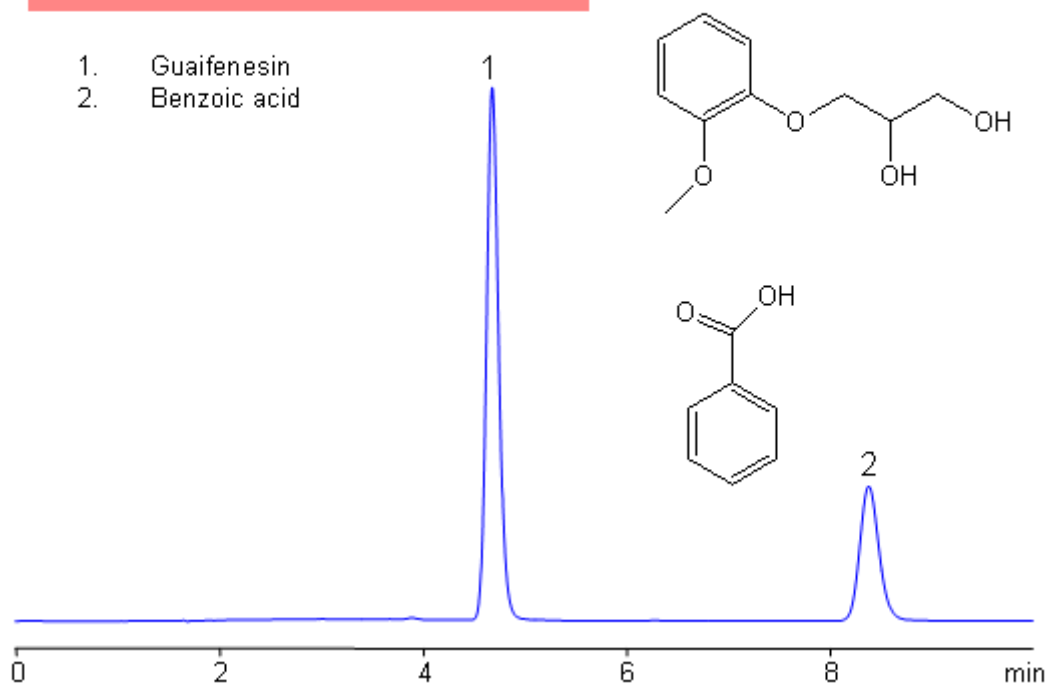
# USP Methods for the Analysis of Guaifenesin Using a Legacy L1 Column

<https://sielc.com/Application-USP-Methods-for-the-Analysis-of-Guaifenesin-Using-a-Legacy-L1-Column>

## Chromatogram

**Column:** Legacy L1  
**Size:** 4.6 x 150 mm  
**Mobile phase:** MeOH/H<sub>2</sub>O/AcOH 40/60/1.5  
**Flow:** 1.0 mL/min  
**Detection:** UV 270 nm

1. Guaifenesin
2. Benzoic acid



## Description

Application Notes: Guaifenesin is common, over the counter expectorant. Guaifenesin contain no less than 98 percent and not more than 102 percent of the labeled amount of guaifenesin calculated on a dried basis, according to the USP methods. The USP HPLC method for the analysis of guaifenesin was developed on our 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 µm and pore size of 100-120Å.

Application Columns: Legacy L1 C18 HPLC column · Application compounds: Guaifenesin, benzoic acid · Mobile phase: MeOH/H<sub>2</sub>O/AcOH 40:60:1.5 · Detection technique: UV · Reference: USP 35- NF30

## Method Parameters

<b>Mobile Phase</b>	MeOH/H <sub>2</sub> O/AcOH 40/60/1.5
<b>Buffer</b>	NaH <sub>2</sub> PO <sub>4</sub>
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV, 270 nm
<b>Class of Compounds</b>	Drug, Antibiotics, Hydrophobic, Ionizable, Acid

Analyzing Compounds

Guaifenesin, Benzoic acid

HPLC Column Used

**Legacy L1, 4.6x150 mm, 5 µm, 100A**

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