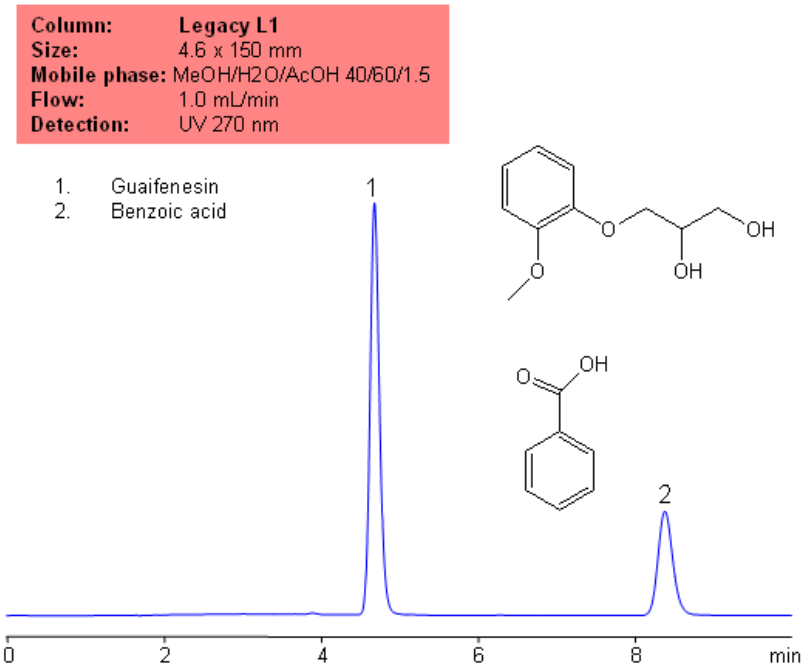
## USP Methods for the Analysis of Guaifenesin Using a Legacy L1 Column




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 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 100-120 Å.

Application Columns: Legacy L1 C18HPLCcolumn

Application compounds: Guaifenesin, benzoic acid

Mobile phase: MeOH/H2O/AcOH40:60:1.5

Detection technique: UV

Reference: USP35- NF30

SIELC's family of Legacy columns is based on the United States Pharmacopeia's (USP) published chromatographic methods and procedures. Numerous brands have columns used in USP reference standards and methods. USP has created various designations to group together columns with similar types of packing and properties in the solid phase. SIELC's Legacy columns adhere to these strict requirements and properties, allowing you to easily replace older columns that are no longer available without needing to significantly modify your method or SOPs.

## Method Parameters

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|---|---|
| **Column** | Legacy L1, 4.6×150 mm, 5 µm, 100 Å |
| **Mobile Phase** | MeOH/H2O/AcOH40/60/1.5 |
| **Buffer** | NaH2PO4 |
| **Flow Rate** | 1.0 mL/min |
| **Detection** | UV, 270 nm |

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