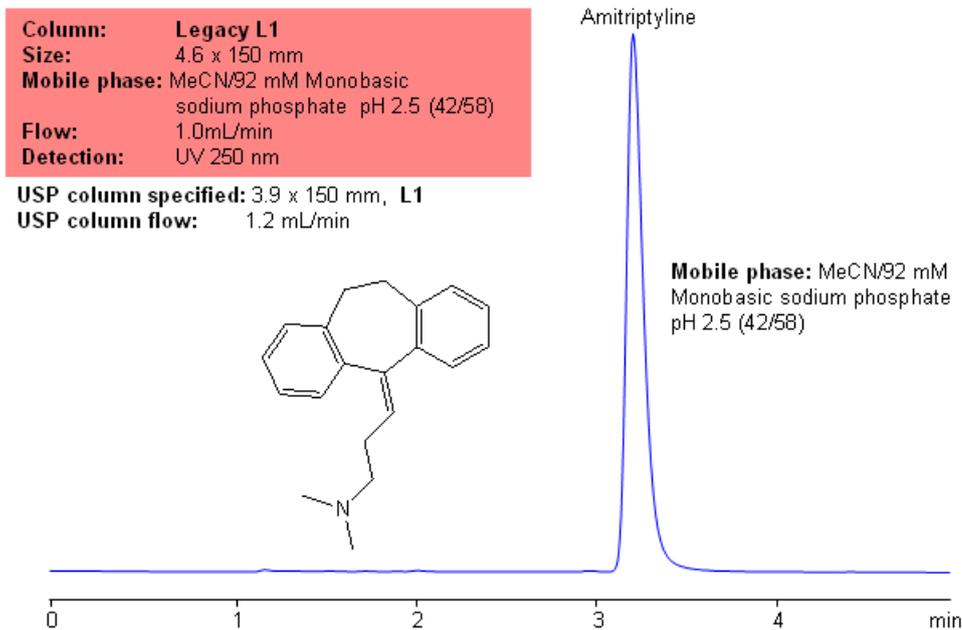


USP Methods for the Analysis of Amitriptyline using a Legacy L1 Column



Application Notes: Amitriptyline is a tricyclic antidepressant. While it is an older drug, it is still just as effective as newer SSRI's. According to the USP methods, amitriptyline hydrochloride contains no less than 99% and no more than 100.5% of amitriptyline. The USP HPLC method for the separation of amitriptyline 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 particle size 3-10 µm and pore size of 100-120 Å. Resolution between critical pairs corresponds to rules and specifications of USP.

Application Columns: Legacy L1 C18HPLCcolumn

Application compounds: Amitriptyline

Mobile phase: MeCN/92mM monobasic sodium

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

| | |
|---------------------|--|
| Column | Legacy L1, 4.6x150 mm, 5 µm, 100 Å |
| Mobile Phase | MeCN/92 mM NaH ₂ PO ₄ pH 2.5 (42/58) |
| Buffer | NaH ₂ PO ₄ |
| Flow Rate | 1.0 mL/min |
| Detection | UV, 250 nm |

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