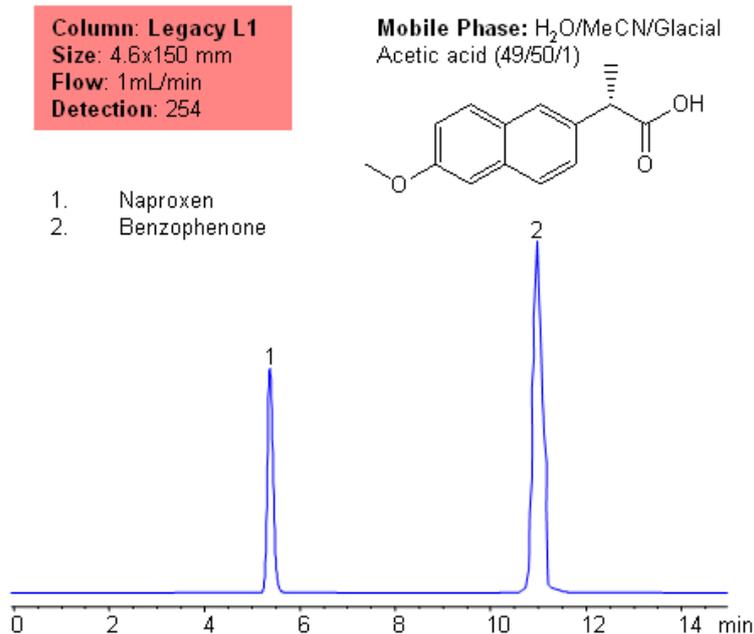


## USP Methods for the Analysis of Naproxen Using Legacy L1 Column



Application Notes: Naproxen is a common NSAID used for pain relief and fever reducer. According to the USP methods, naproxen contains no less than 98% and no more than 101.5 percent naproxen calculated on a dried basis. The USP HPLC method for the separation of naproxen 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 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: naproxen and benzophenone

Mobile phase: water/MeCN/Glacial Acetic acid (49/50/1)

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

<b>Column</b>	Legacy L1, 4.6x150 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	H2O/MeCN/Glacial Acetic acid (49/50/1)
<b>Buffer</b>	Glacial Acetic acid
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV, 254 nm

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