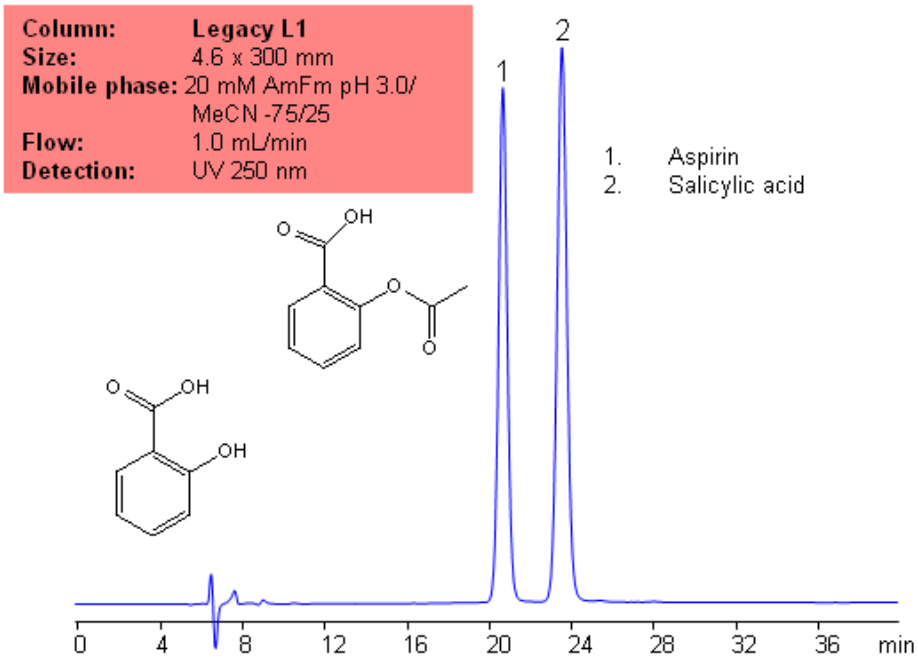
USP Methods for the Analysis of Aspirin (Acetylsalicylic acid (ASA)) Using Legacy L1 Column



Application Notes: Aspirin is one of the oldest analgesics. While it is one of the oldests analgesics, it is still widely used today, and is still one of the most common drugs. According to the USP methods, aspirin contains not less than 99.5% and no more than 100.5 percent of aspirin calculate on a dried basis. The USP HPLC method for the separation of aspirin 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: Aspirin and salicylic acid

Mobile phase: 20 mM AmFm pH 3.0/MeCN- 75/25

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.

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Method Parameters

Column	Legacy L1, 4.6×300 mm, 5 µm, 100 Å
Mobile Phase	MeCN – 25%
Buffer	AmFm pH 3.0 20 mM – 75%
Flow Rate	1.0 mL/min
Detection	UV, 250 nm

Quelle: https://sielc.com/Application-USP-Methods-or-the-Analysis-of-Aspirin-Using-Legacy-L1-Column