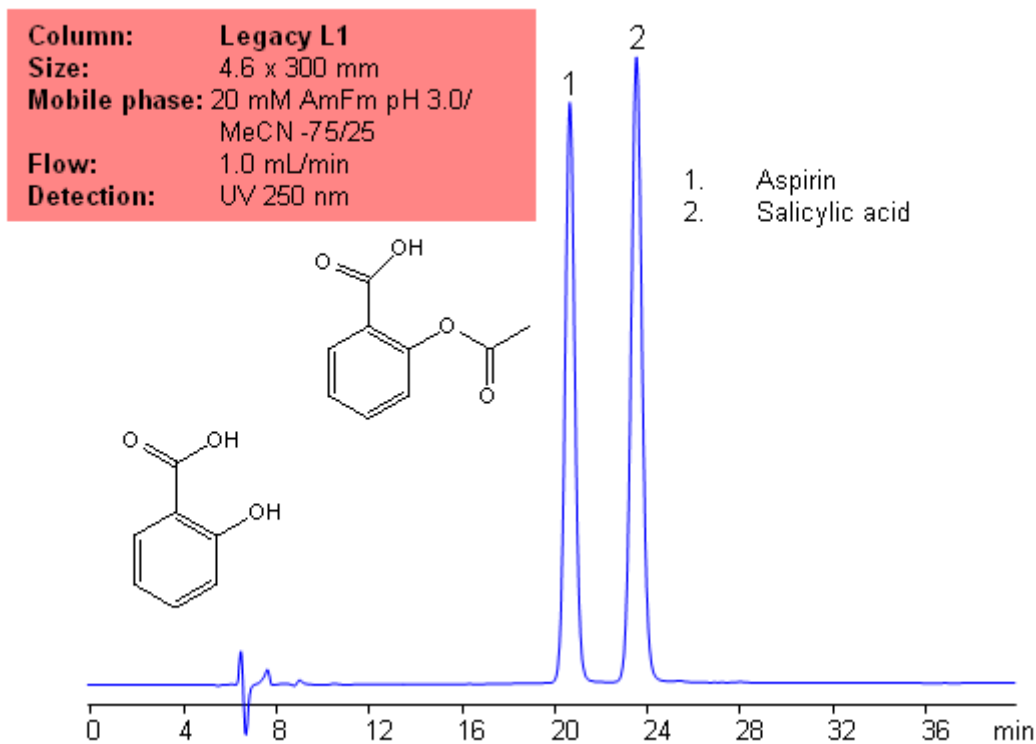


# USP Methods for the Analysis of Aspirin (Acetylsalicylic acid (ASA)) Using Legacy L1 Column

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

## Chromatogram



## Description

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 um and pore size of 100-120A. Resolution between critical pairs corresponds to rules and specifications of USP.

Application Columns: Legacy L1 C18 HPLC column · Application compounds: Aspirin and salicylic acid · Mobile phase: 20 mM AmFm pH 3.0/MeCN- 75/25 · Detection technique: UV · Reference: USP35: NF30

## Method Parameters

<b>Mobile Phase</b>	MeCN – 25%
<b>Buffer</b>	AmFm pH 3.0 20 mM – 75%
<b>Flow Rate</b>	1.0 ml/min
<b>Detection</b>	UV, 250 nm
<b>Class of Compounds</b>	Drug, Acid, Hydrophobic, Ionizable

**Analyzing Compounds**

Aspirin (Acetylsalicylic acid (ASA))

**HPLC Column Used**

**Legacy L1, 4.6x300 mm, 5 µm, 100A**