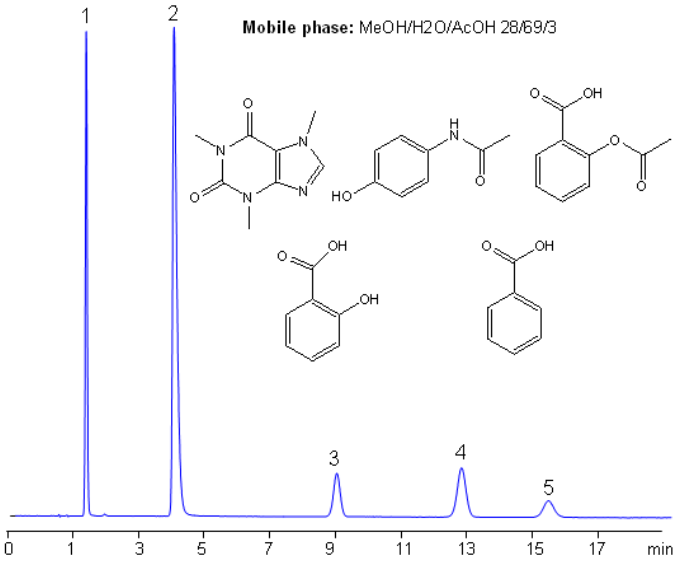
USP Methods for the Analysis of an Analgesic Mixture Using the Legacy L1 Column

Column:	**Legacy L1**
Size:	4.6 x 100 mm
Mobile phase:	MeOH/H2O/AcOH 28/69/3
Flow:	1.0 mL/min
Detection:	UV 270 nm

1. Acetaminophen
2. Caffeine
3. Aspirin
4. Benzoic acid
5. Salicylic acid



Application Notes: Acetametaphin, aspirin, and caffeine tablets contain not less than 90 percent and not more than 110 percent of the labeled amounts if acetametaphin, asprin, and caffeine according the USP methods. USP HPLC method for separation of acetaminophen, aspirin and caffeine was developed on Legacy L1 column according to US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column contains C18 ligands. Support for the material is a 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: Acetaminophen, Aspirin, Caffeine, benzoic acid, and salicylic acid

Mobile phase: MeOH/H2O/AcOH28/69/3

Detection technique: UV

Reference: USP30: NF35

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, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeOH/H2O/AcOH28/69/3
Buffer	AcOH
Flow Rate	1.0 mL/min
Detection	UV, 270 nm

Quelle: https://sielc.com/Application-USP-Methods-for-the-Analysis-of-an-Analgesic-Mixture