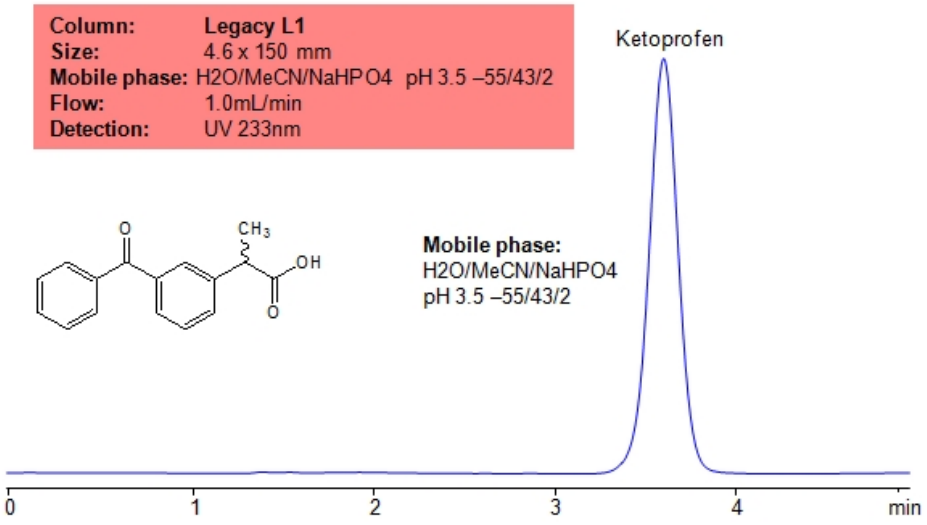
USP Methods for the Analysis Ketoprofen using the Legacy L1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Ketoprofen .

Ketoprofen is a prescription anti-inflammatory drug (NSAID) that is used to treat pain, inflammation, and fever. It is also used in veterinary medicine. It works through inhibiting cyclooxygenase enzymes, which prevents the synthesis of prostaglandins. It can be administered through capsules, topical gel, injections, and patches. It has the chemical formula C16H14O3 .

Ketoprofen can be retained and analyzed using the Legacy L1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Column	Legacy L1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 43/55%
Buffer	NaHPO4pH3.5 – 2%
Flow Rate	1.0 mL/min
Detection	UV, 233 nm

Quelle: https://sielc.com/usp-methods-for-the-analysis-ketoprofen-using-the-legacy-l1-column