USP Methods for the Analysis of Ibuprofen using a Legacy L1 Column

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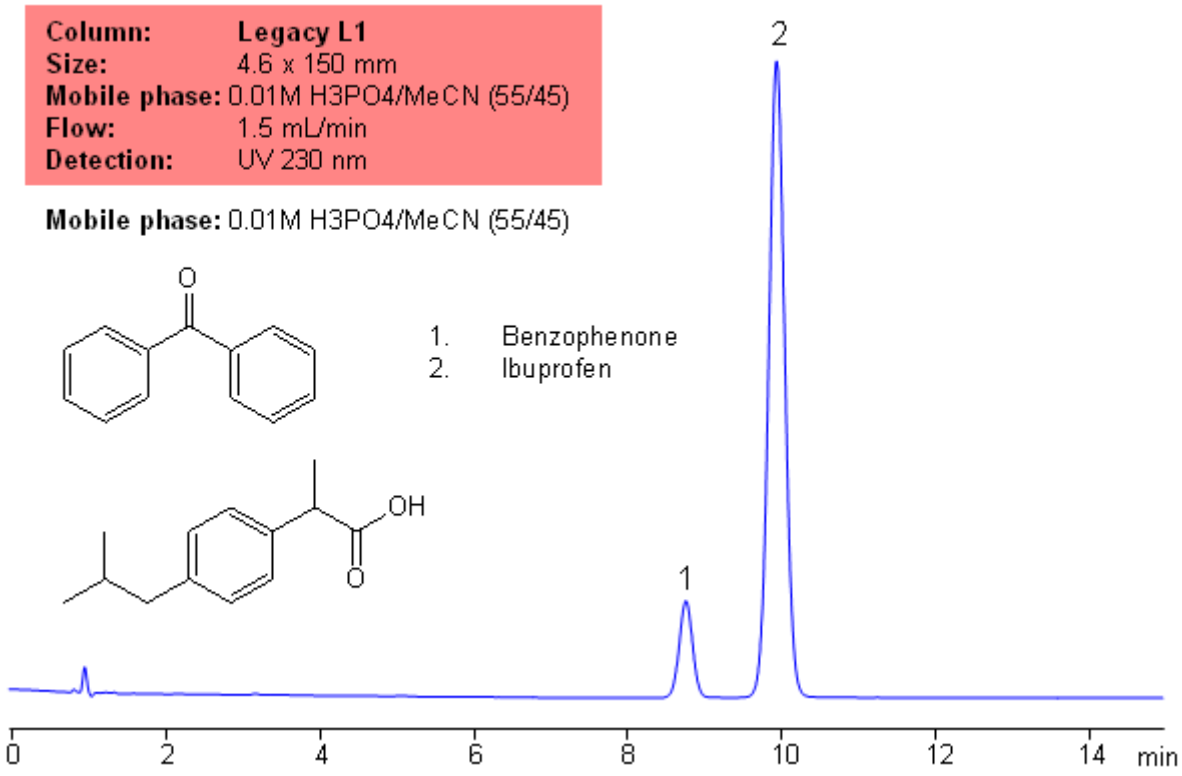
Chromatogram



Description

Application Notes: Ibuprofen is the most commonly used analgesic. It is a vasoconstrictor and fever reducer. According to the USP methods, ibuprofen contains no less than 97% and no more than 103% ibuprofen based on a dried basis. The USP HPLC method for the separation of procainamide was developed on Legacy L1 column according to the US Pharmacopeia methodology. L1 classification is assigned to reversed-phase HPLC column containing Ci18 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: Ibuprofen and benzophenone · Mobile phase: .01M H3PO4/MeCN (55/45) · Detection technique: UV · Reference: USP35: NF30

Method Parameters

Mobile Phase	MeOH/H2O – 45/55%
Buffer	H3PO4
Flow Rate	1.5 ml/min
Detection	UV, 230 nm
Class of Compounds	Drug, Nonsteroidal anti-inflammatory drug, Hydrophobic, Ionizable, Neutral
Analyzing Compounds	Ibuprofen, benzophenone

HPLC Column Used

Legacy L1, 4.6×150 mm, 5 µm, 100A

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