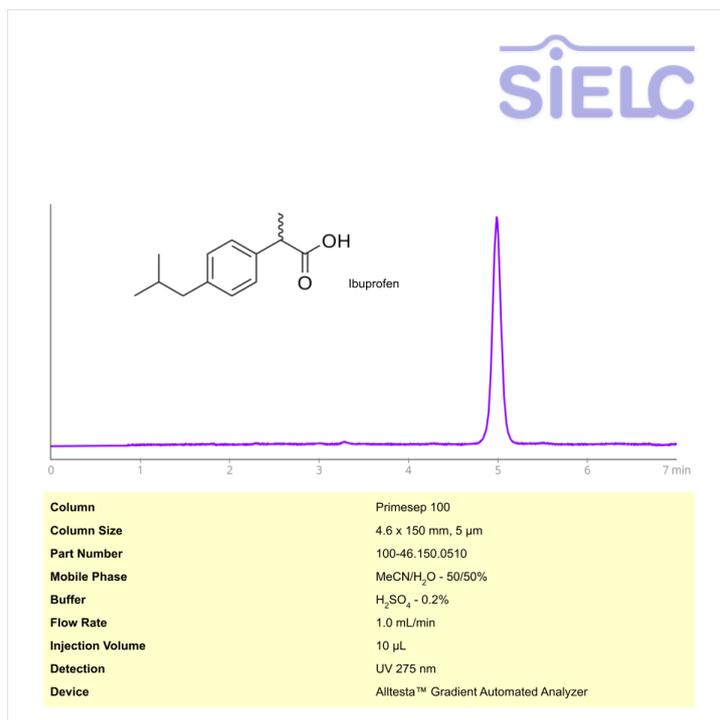


HPLC Method for Analysis of Ibuprofen on Primesep 100 Column on Alltesta™



High Performance Liquid Chromatography (HPLC) Method for Analysis of Ibuprofen

Ibuprofen is a nonsteroidal anti-inflammatory drug (NSAID) with the chemical formula C₁₃H₁₈O₂. It is used primarily to relieve pain, fever, and inflammation. There are numerous adverse effects to taking ibuprofen, including but not limited to nausea, heightened risk of hypertension, kidney impairment, and bronchospasm.

Ibuprofen can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

| | |
|---------------------|---|
| Column | Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| Mobile Phase | MeCN – 50% |
| Buffer | Sulfuric Acid |
| Flow Rate | 1.0 mL/min |
| Detection | UV 275 nm |

Quelle: <https://sielc.com/hplc-method-for-analysis-of-ibuprofen-2>