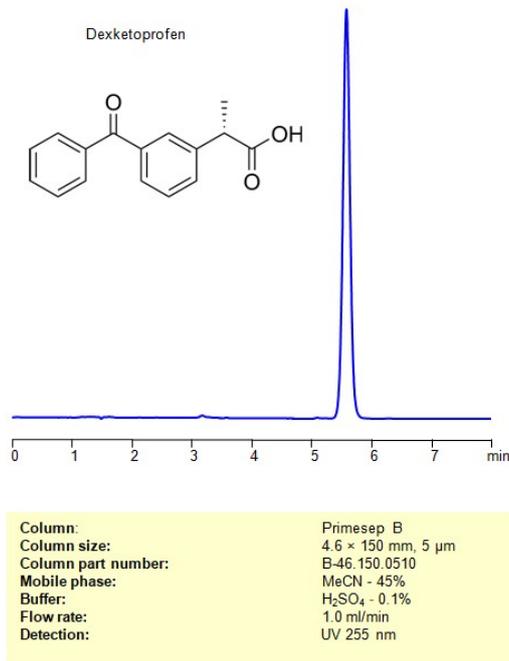


HPLC Method for Analysis of Dexketoprofen on Primesep B Column



Separation type: Liquid Chromatography Reversed-phase

Dexketoprofen is a nonsteroidal anti-inflammatory drug (NSAID) that belongs to the propionic acid class. It is the active enantiomer of ketoprofen, meaning it is one of the mirror-image forms of the ketoprofen molecule. Dexketoprofen is used for its analgesic (pain-relieving), anti-inflammatory, and antipyretic (fever-reducing) properties.

Medical professionals commonly prescribe dexketoprofen for the short-term management of acute pain, such as postoperative pain or musculoskeletal pain. It works by inhibiting the production of certain chemicals in the body, called prostaglandins, which are involved in the inflammatory response and the perception of pain.

It's important to note that like all NSAIDs, dexketoprofen can have potential side effects, including gastrointestinal issues such as stomach upset or ulcers, so it should be used under the supervision of a healthcare provider, and the prescribed dosage and duration should be followed accordingly.

Dexketoprofen can be retained and analyzed on a reversed-phase Primesep B column with a mobile phase consisting of water, Acetonitrile (MeCN), and sulfuric acid. This analytical method can be detected with high resolution and peak symmetry at a wavelength of 220 nm using UV detection

Method Parameters

Column	Primesep B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 45/55%
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 255 nm

Quelle: <https://sielc.com/hplc-determination-of-dexketoprofen>