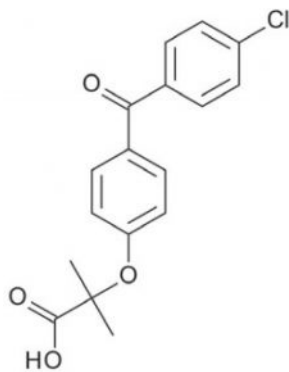
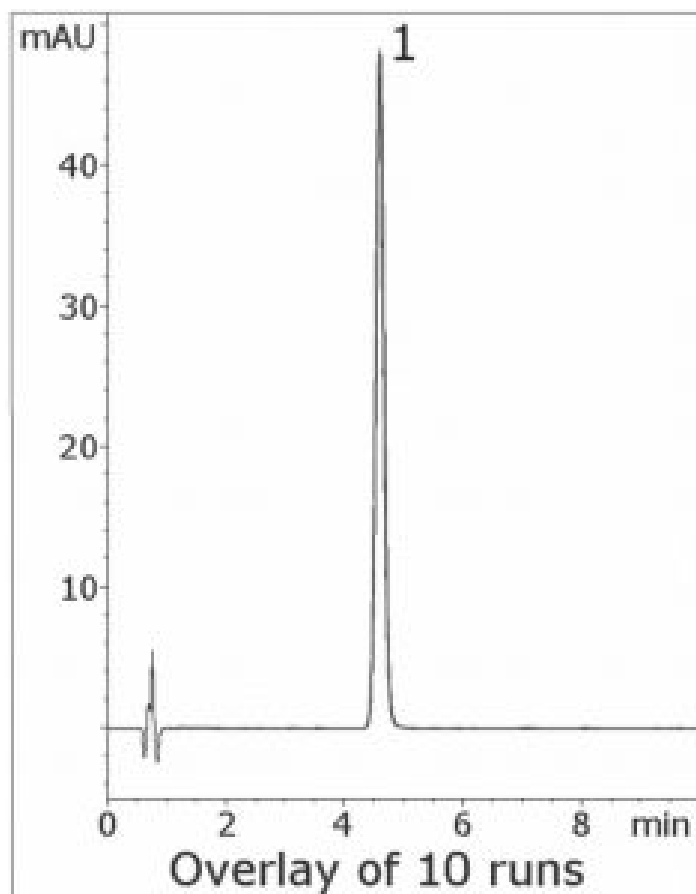


Fenofibric Acid Capsule Analyzed with HPLC – AppNote

Simple Isocratic LCMS Compatible Assay Method

The USP Assay Method for Fenofibric Acid uses a Phosphate buffer which is incompatible with MS detection. In this isocratic Method, only Formic Acid is needed in the Mobile Phase. The Peak Efficiency and Symmetry are excellent and the run-to-run precision is reliable and robust, as the 10 Chromatograms shown below indicate.



Peak:

Fenofibric Acid

Method Conditions

Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75mm

Mobile Phase: 50% DI Water / 50% Acetonitrile / 0.1% Formic Acid (v/v)

Injection vol.: 1µL

Flow rate: 1.0mL / minute

Detection: UV @ 285nm

Sample Preparation: 135mg strength Trilipix (*Fenofibric Acid*) Delayed Release Capsule contents were ground with a mortar and pestle. The contents were added to a 100mL volumetric flask containing 50mL Methanol. The flask was sonicated 10 minutes and diluted to mark with Methanol. Then a portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.). 100µL of filtrate was diluted with 900µL of Methanol.

Note: *Fenofibric Acid is used to moderate Cholesterol levels for patients at risk for cardiovascular diseases. It lowers the amount of Triglycerides and low-density Lipoprotein (LDL) Cholesterol, as well as increases the amount of high-density Lipoprotein (HDL) Cholesterol. It is often used in combination with Statins.*



Attachment

No 185 Fenofibric Acid Capsule Analyzed with HPLC pdf 0.3 Mb [Download File](#)

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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

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