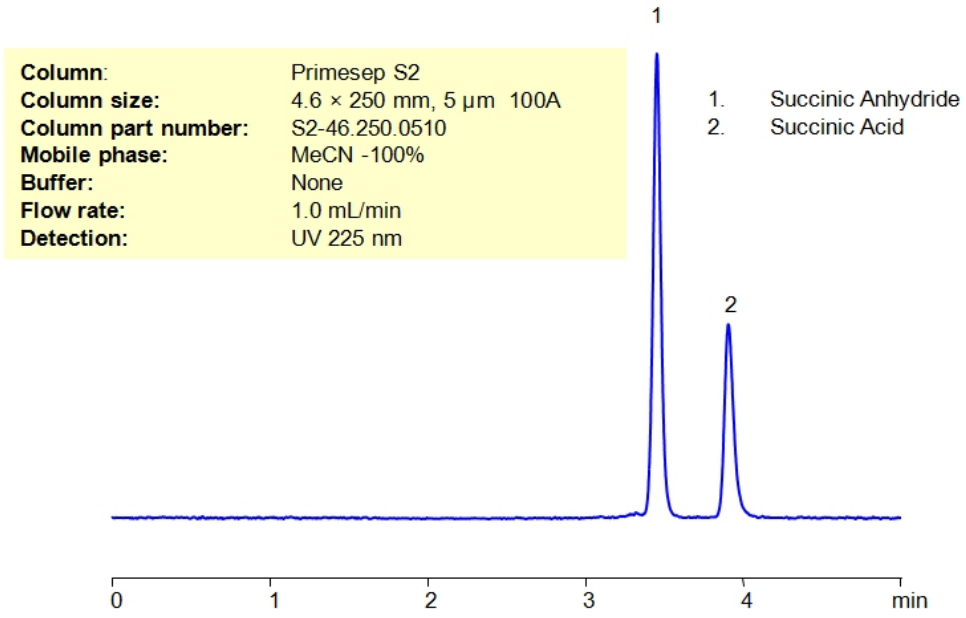
HPLC Method For Analysis Of Succinic Anhydride and Succinic Acid on Primesep S2 Column



Separation type: Liquid Chromatography HILIC

High Performance Liquid Chromatography (HPLC) Method for Analysis of Succinic Anhydride and Succinic Acid

Succinic acid is a key intermediary (in the form of its anion, succinate) in the electron transport chain, a process that is the key power source for our cells. It also has a few limited functions outside of the mitochondria. Succinic anhydride, its acid anhydride, is a colorless, crystalline compound used often in the production of polymer resins, often of the alkyd variety. It also has the ability to increase the solubility of various proteins and has other benefits for the pharmaceutical, flavor, and fragrance industries. These two related compounds can be detected in the low UV regime. Using a Primsep S2HILICcolumn, which uses hydrogen-bonding as a separation mechanism, and a mobile phase consisting of water and an acetonitrile (ACN) gradient with no buffer, both of these compounds can be separated and retained. This analysis method can be UV detected at 225 nm.

Method Parameters

Column	Primesep S2, 4.6×250 mm, 5 µm, 100 Å
Mobile Phase	MeCN- 100%
Buffer	No
Flow Rate	1.0 mL/min
Detection	UV 225 nm

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