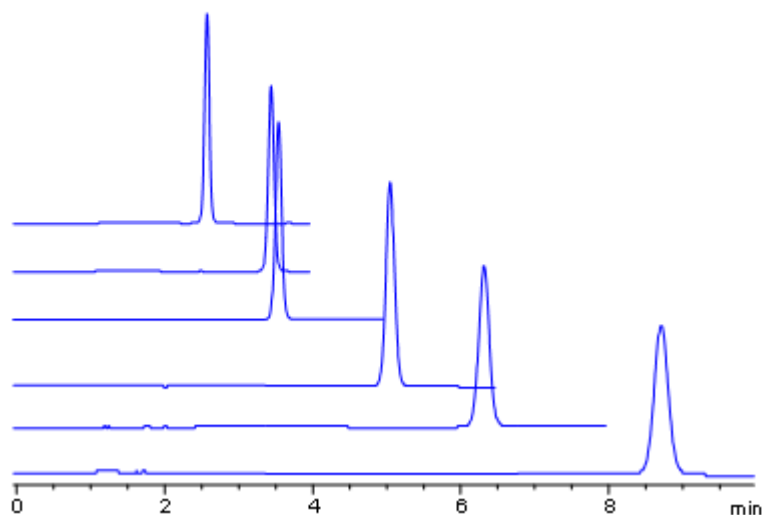


HPLC Method for Analysis of Cetylpyridinium Chloride on Primesep D Column

<https://sielc.com/Application-HPLC-Separation-of-Cetylpyridinium>

Chromatogram

Column:	Primesep D
Column size:	150 x 4.6 mm
Flow rate:	1.0 mL/min
Detection:	UV 250 nm



Mobile phase:	
MeCN/water/TFA	55/45/0.1
MeCN/water/TFA	55/45/0.2
MeCN/water/TFA	50/50/0.1
MeCN/water/TFA	50/50/0.2
MeCN/water/TFA	45/55/0.1
MeCN/water/TFA	45/50/0.2

Description

Cetylpyridinium Chloride is an antiseptic agent used in mouthwash or dental care for oral and throat care. Primesep D retains cetylpyridinium by a combination of reversed-phase and ion-exchange mechanisms. The anion-exchange properties of the column can be adjusted by the TFA concentration in the mobile phase and the reversed-phase properties are adjusted by the percentage of acetonitrile. The HPLC separation uses a mobile phase of water, acetonitrile (MeCN, ACN) and trifluoroacetic acid (TFA) and UV detection at 250 nm.