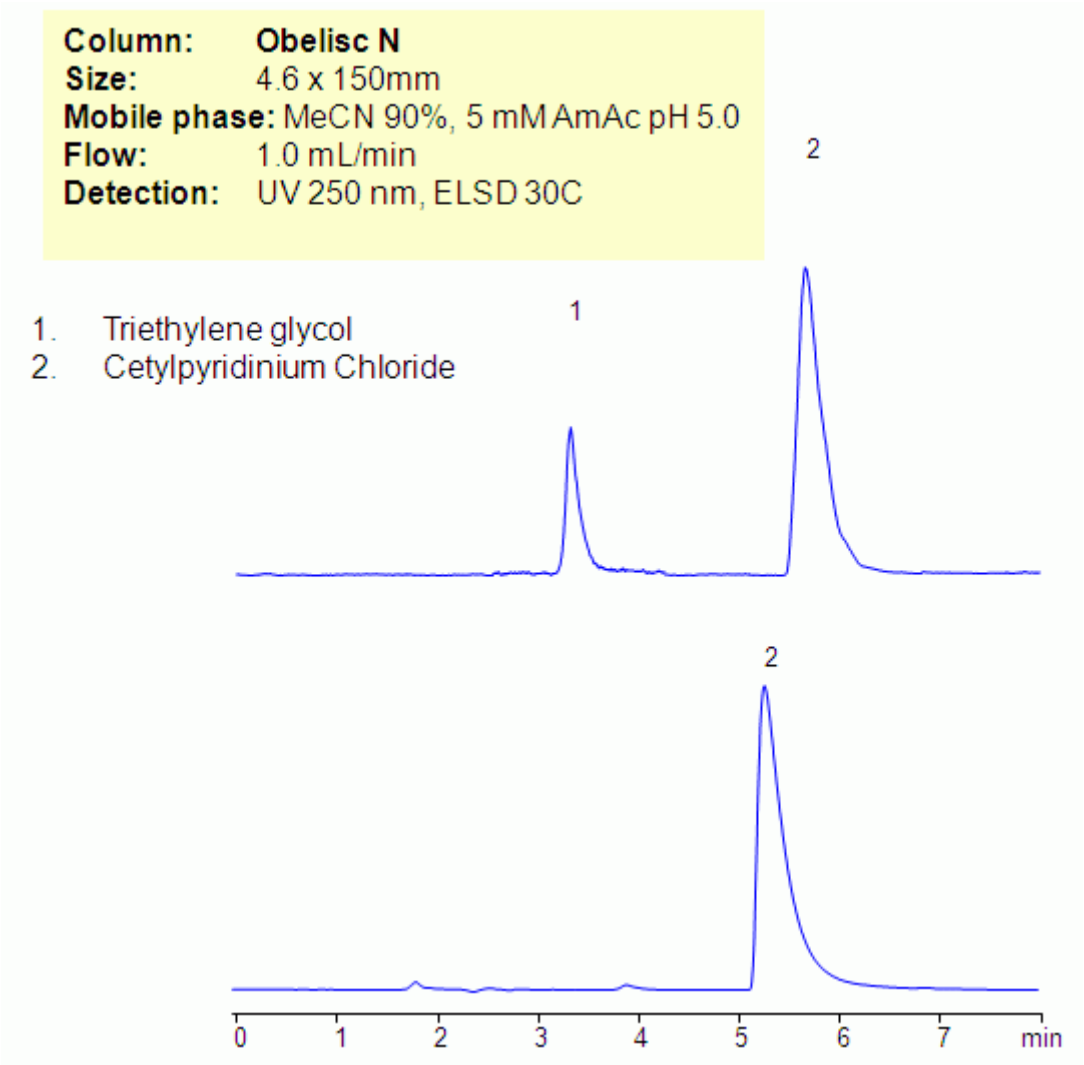
HPLC Method for Analysis of Cetylpyridinium Chloride and Triethylene Glycol on Obelisc N Column

https://sielc.com/Application-HPLC-Separation-of-Cetylpyridinium-Chloride-and-Triethylene-Glycol

Chromatogram



chr_291.gif

Description

Cetylpyridinium chloride is hydrophobic basic compound and triethylene glycol is hydrophilic neutral compounds. Quantitative analysis of both compounds is problematic due to a different nature of these two analytes. Both compounds were analyzed on an Obelisc N column in HILIC/cation-exchange mode. Cetylpyridinium chloride is retained by cation-exchange mechanism, and triethylene glycol is retained by HILIC mechanism. Mixed-mode HILIC approach allows to retain compounds either based on multiple or single mechanisms interaction, thus providing a valuable approach for analysis. Cetylpyridinium chloride and triethylene glycol can be monitored by combination of UV and ELSD/CAD.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	AmAc ph 5.0

Flow Rate	1.0 ml/min
Detection	UV 250nm, ELSD
Class of Compounds	Surfactant, Hydrophobic, Ionizable
Analyzing Compounds	Triethylene glycol, Cetylpyridinium Chloride

HPLC Column Used

Obelisc N, 4.6×150 mm, 5 µm, 100A

Order this column at hplc-shop.de →