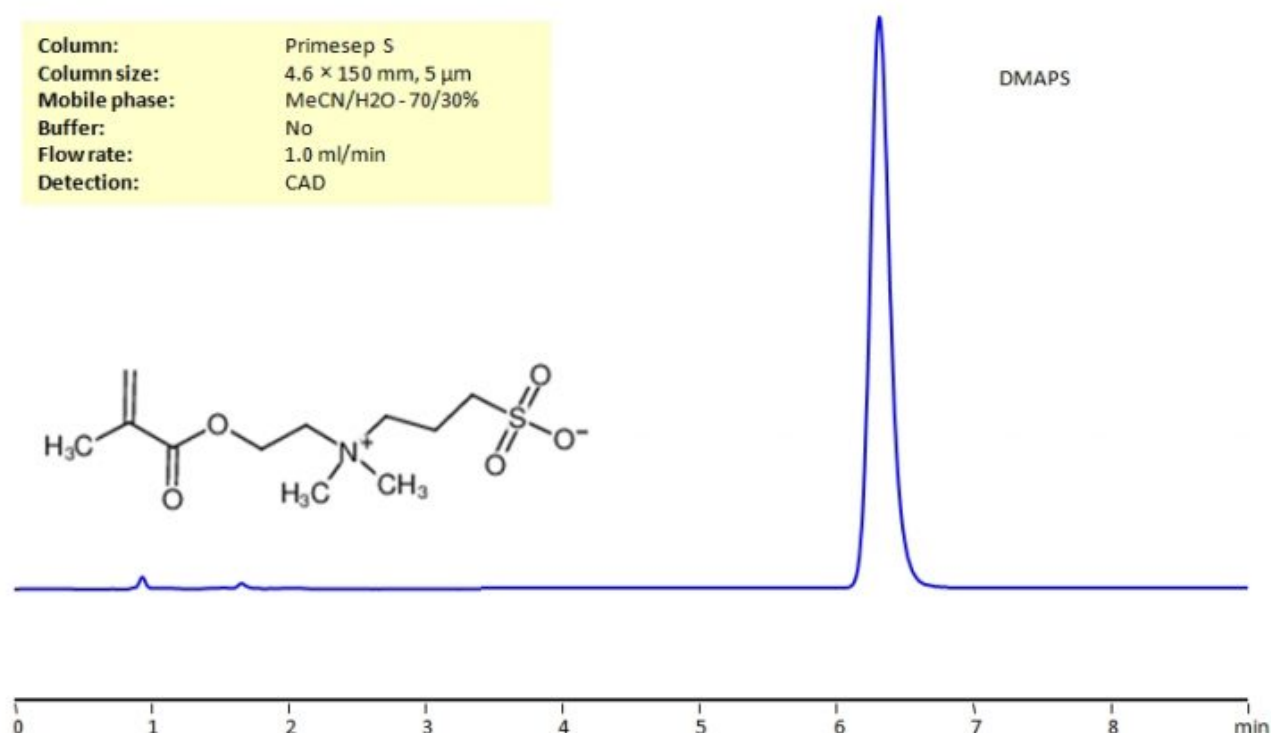


HPLC Determination of DMAPS on Primesep S Column

<https://sielc.com/hplc-determination-of-dmaps-on-primesep-s-column>

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of 3-[Dimethyl-[2-(2-methylprop-2-enoyloxy)ethyl]azaniumyl]propane-1-sulfonate (DMAPS) .

3-[Dimethyl-[2-(2-methylprop-2-enoyloxy)ethyl]azaniumyl]propane-1-sulfonate (DMAPS) , also known as DMAPS, is a hygroscopic zwitterionic monomer with the chemical formula C₁₁ H₂₁ NO₅ S . It is typically used for the synthesis of polysulfobetaines, which are useful in many biomedical applications.

3-[Dimethyl-[2-(2-methylprop-2-enoyloxy)ethyl]azaniumyl]propane-1-sulfonate (DMAPS) can be retained and analyzed using the Primesep S stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using CAD.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	No
Flow Rate	1.0 ml/min
Detection	CAD, MS- compatible mobile phase
Class of Compounds	Hydrophobic, Polar, Zwitterion

Analyzing Compounds

3-[Dimethyl-[2-(2-methylprop-2-enoyloxy)ethyl]azaniumyl]propane-1-sulfonate (DMAPS)

HPLC Column Used

Primesep S2, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)