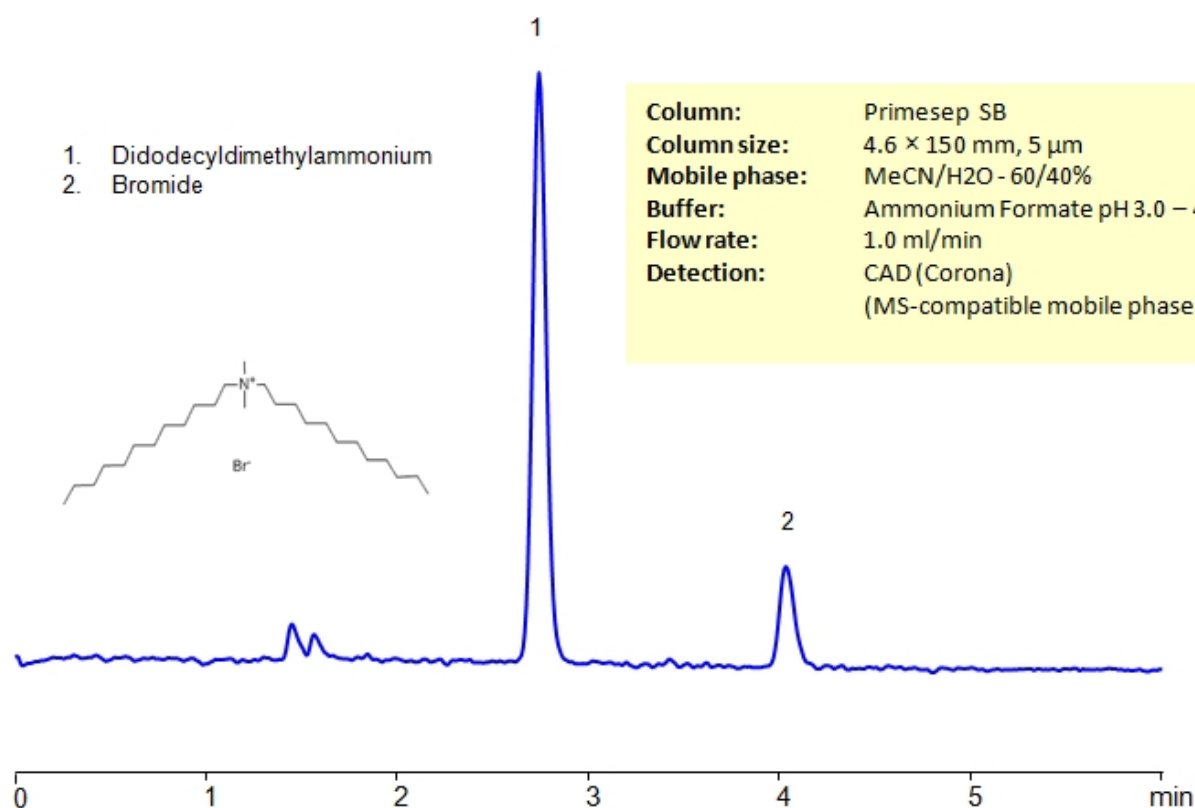


HPLC Determination of Didodecyldimethylammonium Bromide on Primesep SB Column

<https://sielc.com/hplc-determination-of-didodecyldimethylammonium-bromide>

Chromatogram



HPLC Determination of Didodecyldimethylammonium bromide on Primesep SB Column_1208

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Didodecyldimethylammonium bromide , Bromide

Didodecyldimethylammonium Bromide is a double-chain cationic surfactant with the C₂₆ H₅₆ BrN molecular structure. It is occasionally used as a disinfectant, synthesis of nanoparticles and organoclays. Neuroblastoma and leukemia cells are more sensitive to it than to any other carcinoma cells.

Didodecyldimethylammonium bromide , Bromide can be retained and analyzed using the Primesep SB stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Ammonium Formate buffer. Detection is performed using CAD.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 60/40%
Buffer	AmFm pH 3.0 – 40 mM
Flow Rate	1.0 ml/min
Detection	CAD (Corona) (MS-compatible mobile phase)

Class of Compounds	Base, Ions, Hydrophobic, Ionizable
Analyzing Compounds	Didodecyldimethylammonium bromide, Bromide

HPLC Column Used

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

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