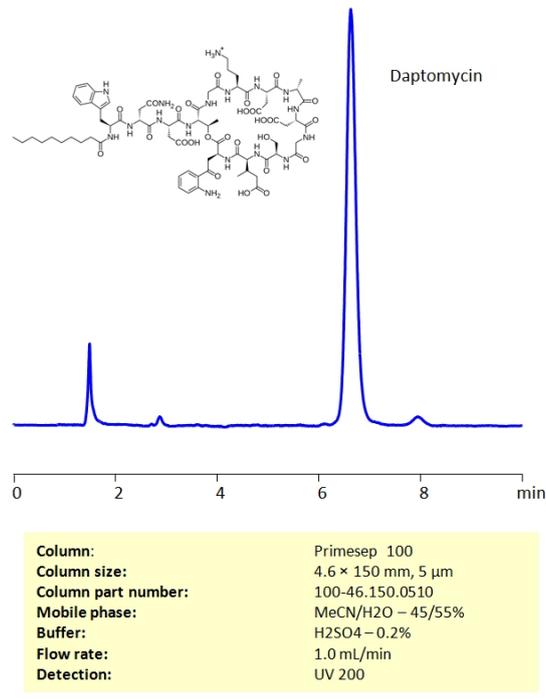


HPLC Determination of Daptomycin on Primesep 100 column



High Performance Liquid Chromatography (HPLC) Method for Analysis Daptomycin

Daptomycin is a cyclic lipopeptide antibiotic with the chemical formula C₇₂H₁₀₁N₁₇O₂₆. It displays a dose-dependent killing activity against a broad range of gram-positive bacteria. It has only minimal activity against anaerobic bacteria and no activity against gram-negative bacteria.

Daptomycin can be retained on the Primesep 100 mixed-mode column using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and sulphuric acid (H₂SO₄) buffer. The analysis method can be UV detected at 200 nm.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 45/55%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

Quelle: <https://sielc.com/hplc-determination-of-daptomycin>