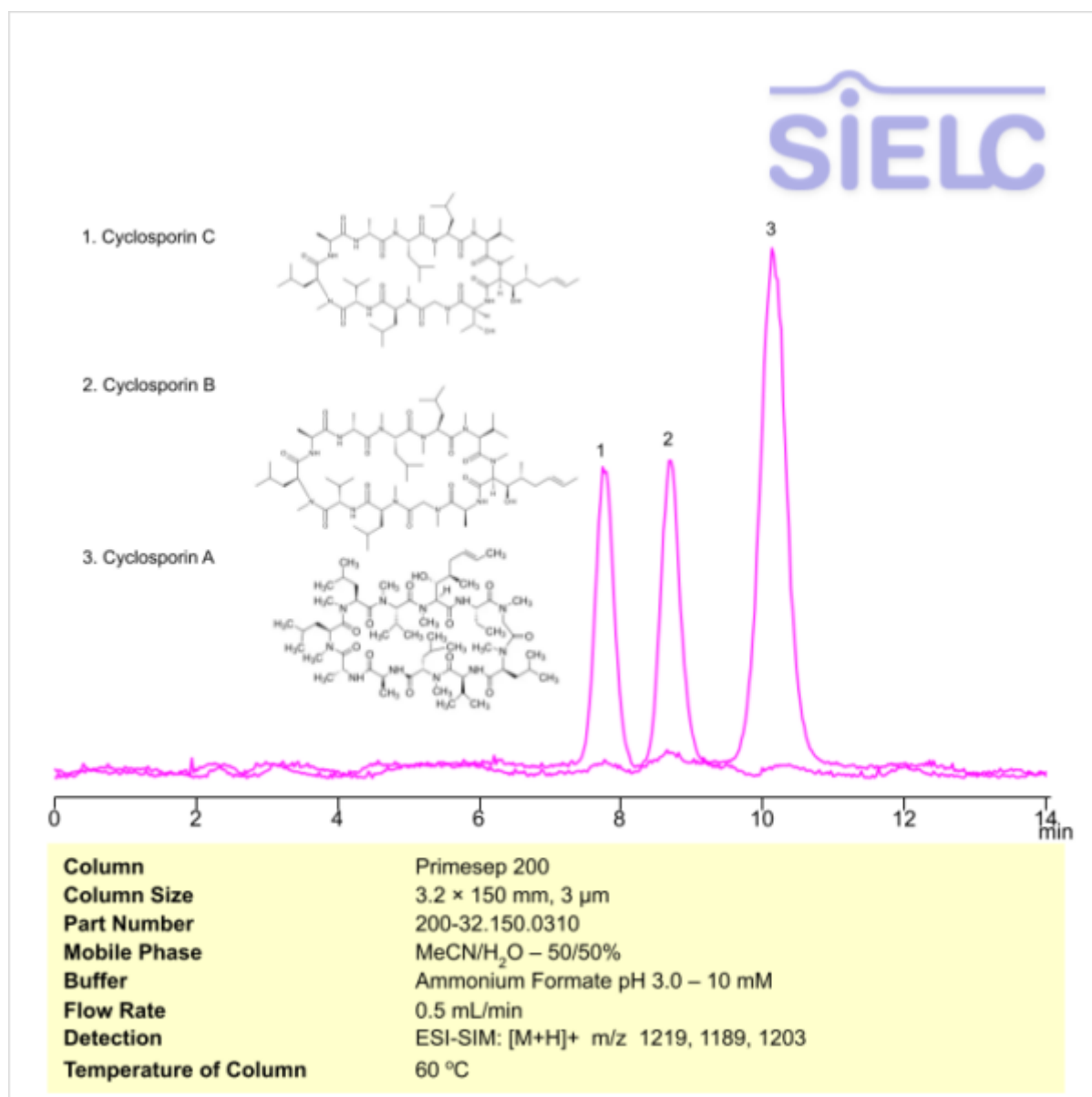


HPLC MS Method for Separation of Cyclosporin A, B and C on PrimeSep 200 Column

<https://sielc.com/hplc-ms-analysis-of-cyclosporin-a-b-c>

Chromatogram



Description

· HPLC Method for Analysis of Cyclosporin A , Cyclosporin B , Cyclosporin C in on PrimeSep 200 Column

Cyclosporine A , also known as cyclosporin and ciclosporin , is a calcineurin inhibitor with the molecular formula C₆₂ H₁₁₁ N₁₁ O₁₂ . It is used primarily as a an immunosuppressant medication to treat rheumatoid arthritis, psoriasis, Crohn's disease, eczema, and much more. It is said to work through decreasing the function of lymphocytes. You can find detailed UV spectra of Cyclosporine A and information about its various lambda maxima by visiting the following link .

Cyclosporine B is a calcineurin inhibitor and analogue of cyclosporin A, with the molecular formula C₆₁ H₁₀₉ N₁₁ O₁₂ . It is used primarily as a an immunosuppressant medication with antifungal activities. It is said to work inhibiting P-glycoprotein activity and suppressing the growth of T-lymphoma cell lines. You can find detailed UV spectra of Cyclosporine B and information about its various lambda maxima by visiting the following link .

Cyclosporine C is a cyclic peptide and fungal metabolite, with the molecular formula $C_{62}H_{111}N_{11}O_{13}$. It is used primarily for its antifungal, antiviral, anti-parasitic, and immunosuppressive properties. It is said to work by inhibiting the vaccinia virus replication in infected cells. Despite that, it displays weaker activity compared to Cyclosporin A. You can find detailed UV spectra of Cyclosporine C and information about its various lambda maxima by visiting the following link

Cyclosporin A, Cyclosporin B, Cyclosporin C can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a mobile phase consisting of acetonitrile and water. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	Ammonium Formate pH 3.0 – 10 mM
Flow Rate	0.5 ml/min
Detection	ESI-SIM: [M+H] ⁺ m/z 1219, 1189, 1203
Temperature of Column	60 C
Class of Compounds	Drug
Analyzing Compounds	Cyclosporin A, Cyclosporin B, Cyclosporin C

HPLC Column Used

Primesep 200, 3.2 x 150 mm, 3 µm, 100 Å, dual ended

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