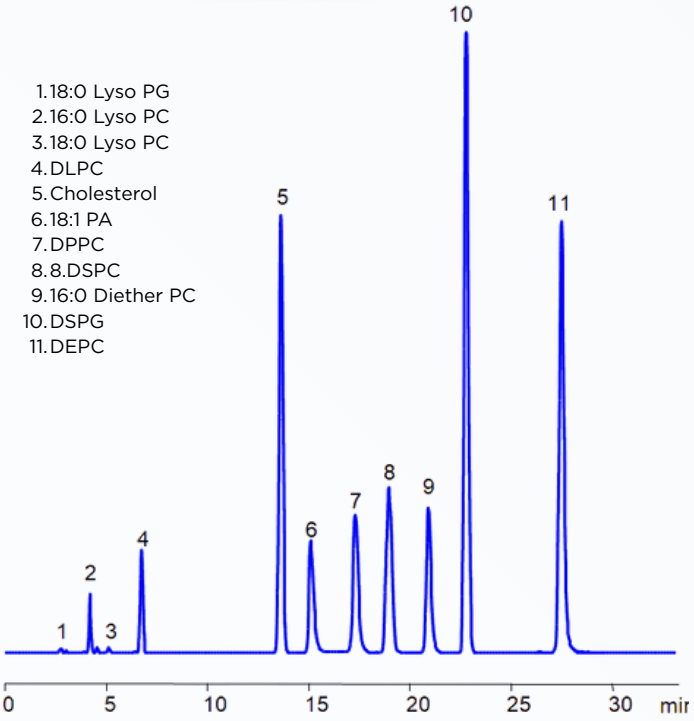
HPLC Method for Phospholipids on Lipak™ by SIELC Technologies

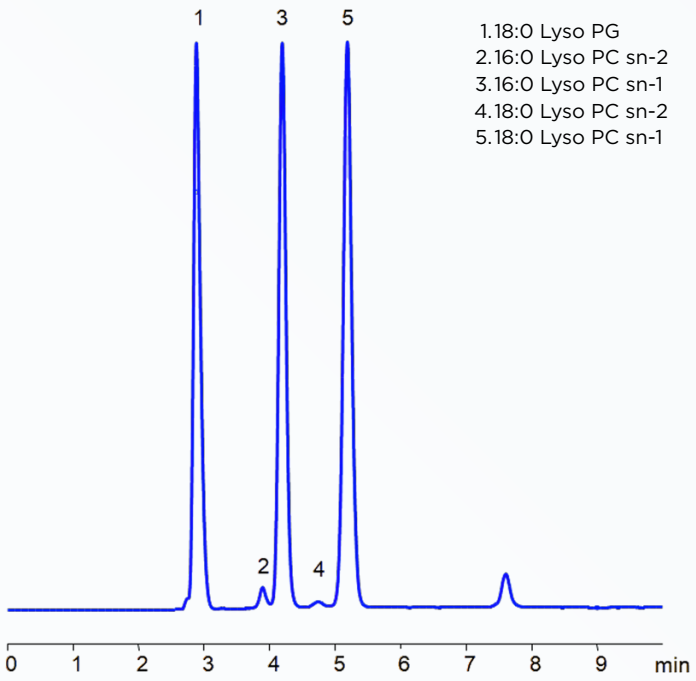
JAN, 2026

Gradient Method



Column: Lipak
Column size: 4.6 × 150 mm, 5 µm
Column part number: LP-46.150.0510
Mobile phase: Gradient MeOH/H2O - 90/10-100/0%, 20 min, 10 min hold
Buffer: AmFm - 10 mM, FA - 0.05%
Flow rate: 1.0 mL/min
Detection: ELSD

Isocratic Method



Column: Lipak
Column size: 4.6 × 150 mm, 5 µm
Column part number: LP-46.150.0510
Mobile phase: MeOH - 90%
Buffer: AmFm - 10 mM, FA - 0.05%
Flow rate: 1.0 mL/min
Detection: ELSD

Application Comments

Phospholipids have an amphiphilic nature and structural diversity—including different headgroups, fatty acid chain lengths, and degrees of saturation—which create significant challenges for chromatographic separation.

The Lipak™ column addresses these challenges through a unique mixed-mode hydrophobic/hydrophilic interaction, providing excellent retention and selectivity across a wide range of phospholipids.

The presented chromatograms demonstrate the versatility of the Lipak™ column under gradient and isocratic conditions. The gradient method separates a broader range of phospholipids, including Lyso PG, Lyso PC, and cholesterol, while the isocratic method is optimized for targeted separation of specific Lyso PC molecules.

With the Lipak™ column, lipid analysis becomes a simple task.

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