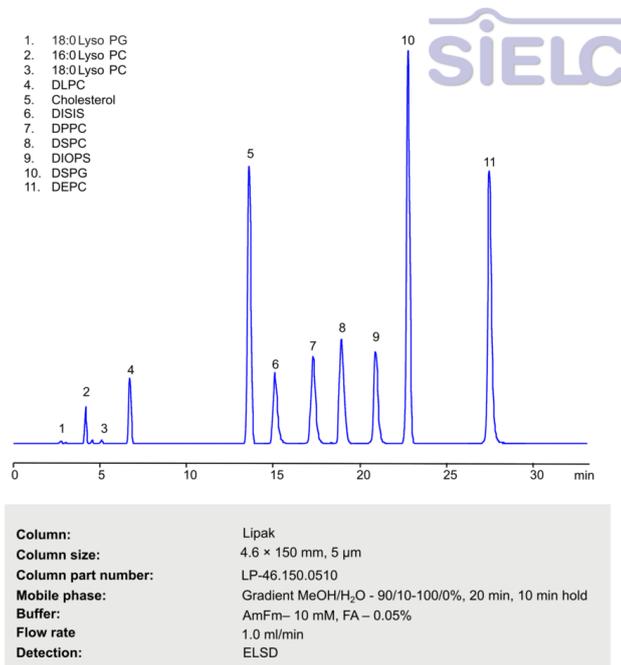


## ELSD-HPLC Method for Analysis of Phospholipids on Lipak Column



Phospholipids are vital components of cell membranes, playing key roles in cell signaling, energy storage, and protective functions. They are essential for maintaining cellular structure and function, making them crucial in biological processes and industrial applications such as drug delivery and cosmetic formulations.

Over time, phospholipids can degrade into various biologically active products, including lysophospholipids and fatty acids, which are involved in cellular signaling and inflammation. Monitoring both phospholipids and their degradation products provides valuable insights into metabolic health, lipid metabolism, and the stability of lipid-based formulations.

Our high-resolution chromatograms ensure accurate and reliable analysis of both phospholipids and their degradation products, supporting applications in clinical diagnostics, pharmaceuticals, and food quality control.

Phospholipids can be retained, and analyzed using a Lipak mixed-mode stationary phase column. The analysis utilizes an gradient method with a mobile phase consisting of water, methanol (MeOH), ammonium formate and formic acid as a buffer. Detection is achieved using ELSD.

## Method Parameters

<b>Column</b>	Lipak, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	Gradient MeOH –90-100% 20 min, 10 min hold
<b>Buffer</b>	AmFm– 10 mM, FA – 0.05%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	ELSD, the nebulizer and evaporator temperatures 40°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)

Quelle: <https://sielc.com/alltesta-hplc-method-for-analysis-phospholipids>