

## Advanced Size-Exclusion Chromatography for Lentivirus Aggregation Analysis

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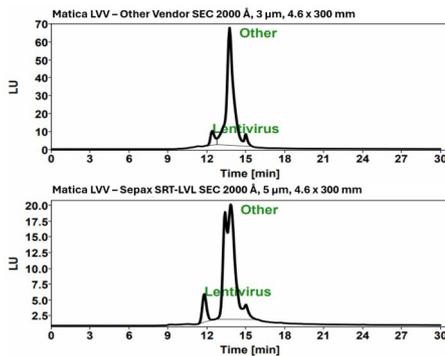
### New Sepax SRT-LVL Column for Lentivirus SEC Separation

Lentiviruses are powerful tools for gene and cell therapy, but their large sizes, lipid envelopes, and inherent heterogeneity create challenges for characterization, formulation, and stability studies. Robust, size-based analytical methods are essential to accurately distinguish intact particles from aggregates and other lower molecular weight impurities.

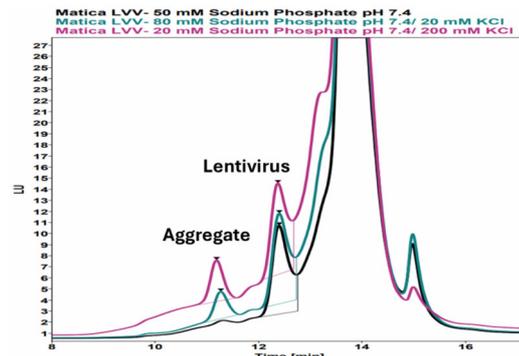
With newly modified SEC surface coating technology, the Sepax SRT-LVL SEC 2000 Å is specifically designed to improve the overall resolution and recovery of lentivirus separation. An engineered hydrophilic surface minimizes nonspecific adsorption between the lentiviral envelope and the stationary phase, resulting in higher recovery, improved peak symmetry and clearer aggregation profiles. The high pore volume and stable bonded coating enable reproducible separation under fully aqueous conditions. Its compatibility with SEC-MALS detection also allows absolute determination of particle size and aggregation state.

In this new application note, featuring a collaboration with Matica Biotechnology, the Sepax SRT-LVL SEC column consistently outperforms the competing SEC product, delivering superior resolution and higher recovery between intact lentiviral particles, aggregates, and impurities. Additionally, the impact of mobile phase format optimization is further discussed in this study.

Sepax SRT-LVL vs. Competitor  
Lentivirus SEC Separation Comparison



Mobile Phase Study: Impact of Ionic Strength on Lentivirus SEC Separation



### Application Data

Contact us today to see how our SRT-LVL SEC columns can support accurate, high-recovery lentivirus analysis across your workflow.

#### SRT-LVL Order Information:

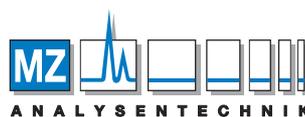
SRT-LVLSEC-2000, 5µm, 2000 Å, 4.6 x 300 mm (PN:219980-4630)

SRT-LVLSEC-2000, 5µm, 2000 Å, 4.6 x 50 mm, Guard Column (PN:219980-4605)

SRT-LVLSEC-2000, 5µm, 2000 Å, 7.8 x 300 mm (PN:219980-7830)

SRT-LVLSEC-2000, 5µm, 2000 Å, 7.8 x 50 mm, Guard Column (PN:219980-7805)

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