



SRT & SRT-C

5 μm SIZE EXCLUSION COLUMNS



Two purpose-built SEC phases sharing the same high-purity, mechanically stabilized 5 μm silica core, one engineered for aqueous biomolecules, one built for hydrophobic and conjugated samples. Both deliver the highest pore volume, lowest non-specific interactions, and unmatched lot-to-lot consistency.

SRT SEC

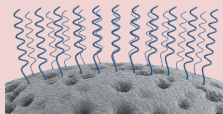
START HERE

STAND-UP MONOLAYER · HYDROPHILIC WORKHORSE

The default choice for proteins, mAbs, peptides, nucleic acids, oligonucleotides, viruses, water-soluble polymers, and nanoparticles in aqueous buffers. Largest pore selection in the market for the broadest molecular weight coverage.

IDEAL FOR

- Peptides
- Nucleic acids
- Vaccines
- VLPs/AAVs
- Aggregation
- mAbs



Chemically bonded "stand-up" monolayer

TECHNICAL SPECIFICATIONS

Particle (μm)	5
Pore (Å)	100-2000
ID (mm)	4.6-50
Length (mm)	10(C), 50-300, 500(C)
pH stability	2.0 - 8.5
Max temp (°C)	80
MW range	0.1 kDa - 10 MDa
Recovery	>95%
Max salt conc	2 M

SRT-C SEC

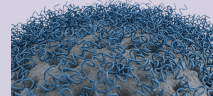
HYDROPHOBIC

LAY-DOWN MONOLAYER · TOUGH-SAMPLE SPECIALIST

For samples that fail on standard SEC. The lay-down monolayer suppresses hydrophobic and electrostatic secondary interactions that cause tailing, co-elution, and recovery loss with conjugates, fusion proteins, and membrane proteins.

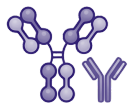
IDEAL FOR

- Fusion proteins
- Bispecifics
- Membrane proteins
- ADCs
- PEGylated
- Insulin



Chemically bonded "lay-down" monolayer

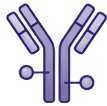
APPLICATION COVERAGE



Monoclonal Antibodies & Bispecifics

High-resolution aggregation analysis, purity profiling, and charge variant characterization of IgG1-IgG4, IgA, kappa/lambda.

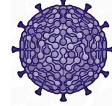
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Antibody Drug Conjugates

Drug-load distribution profiling for lysine & cysteine ADCs. Resolves unconjugated mAb, DAR species, and aggregates in native conditions.

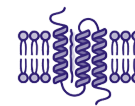
SRT-C



VLPs & Vaccine Nanoparticles

Characterization of VLP integrity, mosaic influenza vaccine constructs, and stoichiometric Fab binding ratios — published in Sci Rep.

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Membrane & Hydrophobic Proteins

Separations in detergent-containing buffers (DDM, UDM, TDM, octyl glucoside). Aquaporin, bacterial transporters & K-channels.

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PEGylated Proteins & Peptides

Resolves mPEG-peptide, 2xmPEG species & free peptide. PEGylated exenatide (23 kDa PEG) baseline-resolved from aggregates.

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Cell Lysates & Complex Mixtures

High-capacity E. coli lysate fractionation. Two columns in tandem (SEC-150 + SEC-1000) deliver >12 mL separation window.

SRT



Nucleic Acids & Oligonucleotides

Size-based fractionation of DNA, RNA, and oligonucleotides in aqueous and SEC-MS organic buffer systems.

SRT



Fusion Proteins & HSA Conjugates

Resolves HSA fusion peptide from HSA; IPA mobile phase additive boosts resolution from R=1.09 to R=1.58 for HSA-conjugated diabetes drugs.

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PEER-REVIEWED LITERATURE

Mosaic Quadrivalent Influenza Vaccine Nanoparticle Analysis
SRT



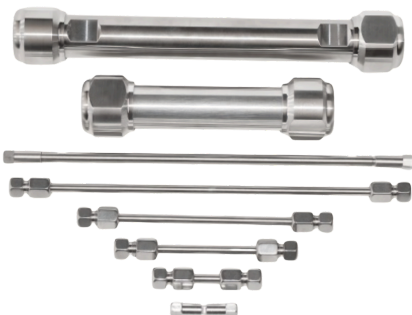
Live Viral Vector (VSV) Dye Conjugation & Activity
SRT



SARS-CoV-2 Spike Trimer Stability Studies
SRT-C



Broad-Spectrum Shigella Vaccine MW Characterization
SRT-C



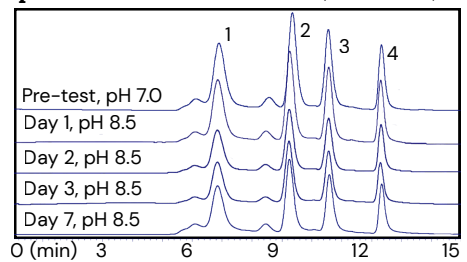
Lot-to-Lot Consistency
Batch-to-batch variation <5% retention time, verified across three independent lots with the Sepax protein standard mixture.

Broad Format Range
2.1 mm capillary through 30 mm preparative. Stainless steel and PEEK hardware. Custom dimensions available on request.

ANALYTICAL · SEMI-PREPARATIVE · PREPARATIVE

Ask about our light scattering options with columns optimized for SEC-MALS analysis.

pH STABILITY SRT SEC-300 (4.6x300 mm)



COLUMN SCREENING SERVICE

Not sure which column or mobile phase to use? Sepax offers a full column screening and method development service. Rapid, cost-effective, and tailored to your sample type.

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