



# Unix & Unix-C

## 1.8 μm SIZE EXCLUSION COLUMNS



The Sepax Unix family delivers sub-2 μm columns engineered for the modern bioanalytical laboratory. Available in two purpose-built variants for standard aqueous biomolecule applications and for challenging hydrophobic and bispecific samples. Both share the same 1.8 μm silica core for unmatched speed, resolution, and reproducibility.

### Unix SEC

#### STANDARD AQUEOUS · STAND-UP MONOLAYER

- Neutral, hydrophilic nanometer film bonded to high-purity silica, minimal non-specific interactions.
- Available in 200 Å and 300 Å pore sizes.
- pH stability 2–7.6; tolerates up to 500 mM salt; max 80 °C.
- Backpressure up to 50% lower than competitor sub-2 μm columns, gentle on samples.
- Run-to-run, lot-to-lot, and column-to-column reproducibility within 5% retention time.
- Lifetime >800 injections with guard column exchange every 75 injections.
- Compatible with aqueous buffers and organic solvents (MeOH, EtOH, THF, DMF, DMSO).

### Unix-C SEC

#### HYDROPHOBIC & BISPECIFIC · LAY-DOWN MONOLAYER

- Unique lay-down monolayer architecture reduces secondary interactions vs. stand-up chemistry.
- Native-condition ADC separation with superior resolution & total recovery over competitors.
- Resolves hydrophobic impurities and aggregates invisible to standard SEC phases.
- Broader pH stability: 2.0–8.5 (store at neutral pH).
- Recommended flow 0.1–0.35 mL/min; max backpressure 4,500 psi.
- Operates on any UHPLC or HPLC system.
- Run-to-run, lot-to-lot, and column-to-column reproducibility within 5% retention time.

### APPLICATION COVERAGE BY SAMPLE TYPE

mAbs & Bispecific Abs	Antibody Drug Conjugates	Fusion Proteins & Fab Fragments	PEGylated & Glycoproteins	Membrane & Hydrophobic Proteins	Oligonucleotides
BSA, Transferrin & Standard Proteins	Water-Soluble Polymers	Aggregation & Purity Analysis	High-Throughput Screening	MW Estimation & Characterization	Nanomaterials & Nanoparticles

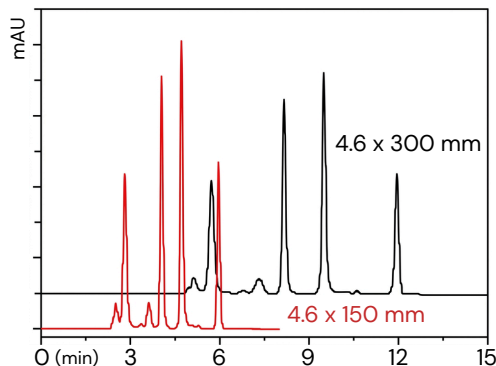
● Unix SEC recommended  
 ● Unix-C SEC recommended  
 ○ Not primary application



### TECHNICAL SPECIFICATIONS

	Unix	Unix-C
Particle (μm)	1.8	1.8
Pore (Å)	200, 300	200, 300
ID (mm)	4.6, 7.8	4.6
Length (mm)	20, 150, 250, 300	20, 150, 300
pH stability	2.0 – 7.6	2.0 – 8.5
Max temp (°C)	80	10–30 (optimal)
MW range (kDa)	5–500 (200 Å), 5–1,250 (300 Å)	5–1,250

### FAST SEPARATIONS



- Protein Standards:**
1. Thyroglobulin 670 kDa
  2. BSA dimer 132 kDa
  3. BSA 66 kDa
  4. Ribonuclease A 14 kDa
  5. Uracil 120 Da

Unix-C SEC-300 – Fast separations for SEC standards, while maintaining high-resolution.

Fab analysis using SEC-MALS



Unix

SEC-MALS analysis of purified proteins



Unix-C

### 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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