SRT – High Capacity and High Resolution Size Exclusion Phases

Innovative Surface Chemistry

Column Information

Utilizing proprietary surface technologies, SRT SEC phases are made of uniform, hydrophilic, and neutral nanometer thick films chemically bonded on the high purity and enhanced mechanical stability silica. The well-controlled chemistry results in excellent lot-to-lot reproducibility. The nature of the chemical bonding and the maximum bonding density of the thin film benefit SRT SEC phases with high stability and negligible non-specific interactions. SRT SEC packings have large pore volume, resulting in high separation resolution.

Phases (5 µm)	Pore Size Selection
SRT SEC-100	100 Å
SRT SEC-150	150 Å
SRT SEC-300	300 Å
SRT SEC-500	500 Å
SRT SEC-1000	1000 Å
SRT SEC-2000	2000Å

Capacity comparison with TSK SEC Column

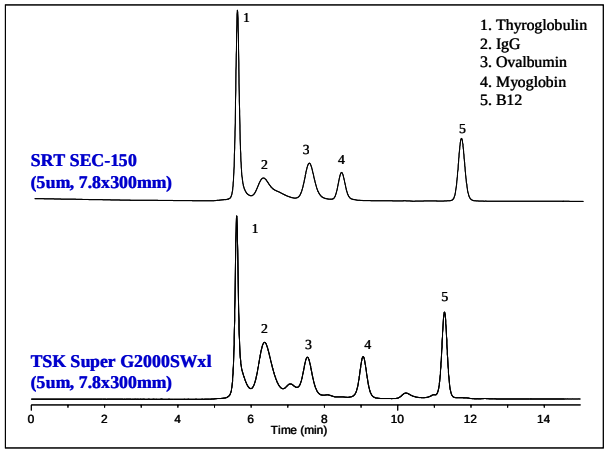

Fig. 1. Separation conditions: 0.15 M phosphate, pH 7; Flow rate: 1.0 mL/min; Room temperature; Detection at 214 nm.

High Stability at pH 8.5

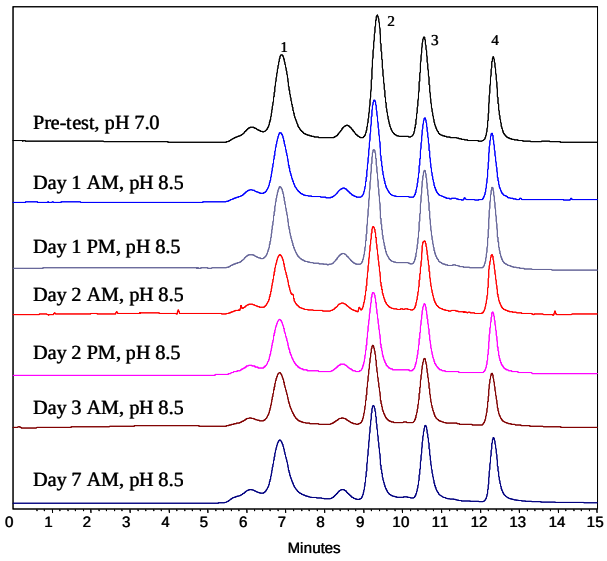

Fig. 2. Column: SRT-300 (5 µm, 4.6x300 mm); Mobile phase: 150 mM PBS, pH 8.5; Flow rate: 0.35 mL/min; Wavelength: 214 nm; Injection: 3 µL; Sample: (1) Thyroglobulin, (2) BSA, (3) Ribonuclease A, (4) Uracil.

High Loading of BSA

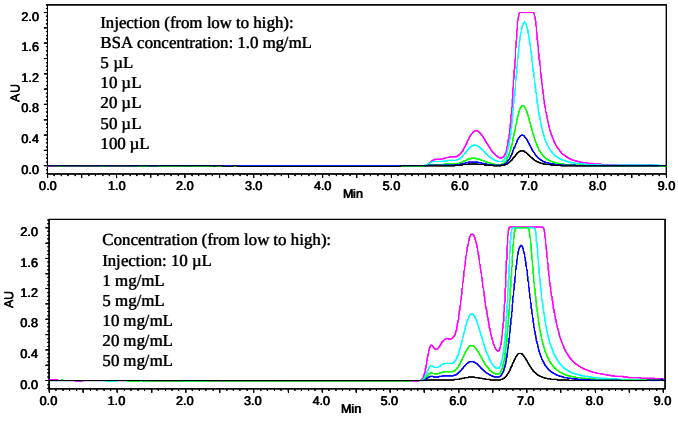

Fig. 3. SRT SEC-150 (5 µm, 7.8x300 mm); 150 mM PBS, pH 8.5; Flow Rate: 1.0 mL/min; Injection: 10 uL; Wavelength: 214 nm

Separation of *E. coli* Lysates

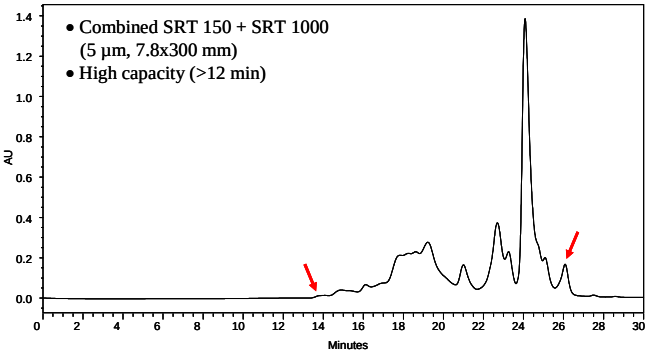

Fig. 4. Conditions: 0.15 M PBS, pH 7.0; 1.0 mL/min; UV 214 nm; Injection: 10 µL (2.5 mg/mL).

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