



1.8 μm 300 Å UHPLC SEC

- Ultra-high resolution for UHPLC and HPLC
- Excellent biomolecule separation while maintaining its original conformation due to low pressure resin property (up to 50% lower than competitor)
- >50% faster separation than traditional SEC columns without compromising resolution for high throughput screening

Unix™ 1.8 μm vs. Zenix® 3 μm SEC-300

Protein Standards on SEC – Unix 1.8 μm vs. Zenix 3 μm

Column: Unix™ SEC-300 (1.8 μm , 300 Å, 4.6 x 150 mm, PN: 211300-4615)

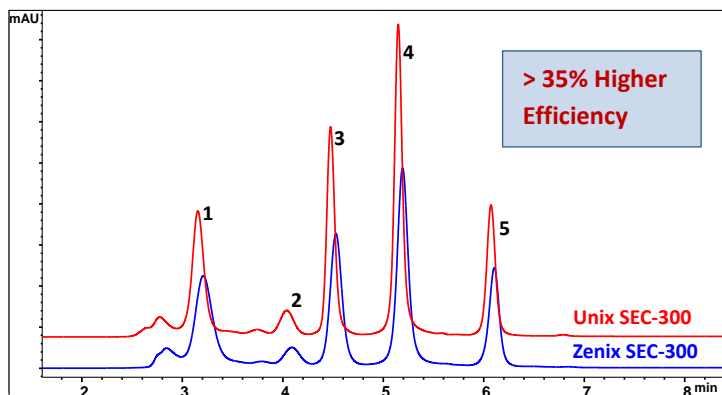
Zenix® SEC-300 (3 μm , 300 Å, 4.6 x 150 mm, PN: 213300-4615)

Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;

Instrument: UHPLC; Detector: UV 214 nm; Column temperature: 25 °C;

Injection volume: 3 μL ; Samples: 1. Thyroglobulin 670 kD; 2. BSA dimer

132 kD; 3. BSA 66 kD; 4. Ribonuclease A 14 kD; 5. Uracil 120 Da



Bio Rad Standards on SEC – Unix 1.8 μm vs. Zenix 3 μm

Column: Unix™ SEC-300 (1.8 μm , 300 Å, 4.6 x 150 mm, PN: 211300-4615)

Zenix® SEC-300 (3 μm , 300 Å, 4.6 x 150 mm, PN: 213300-4615)

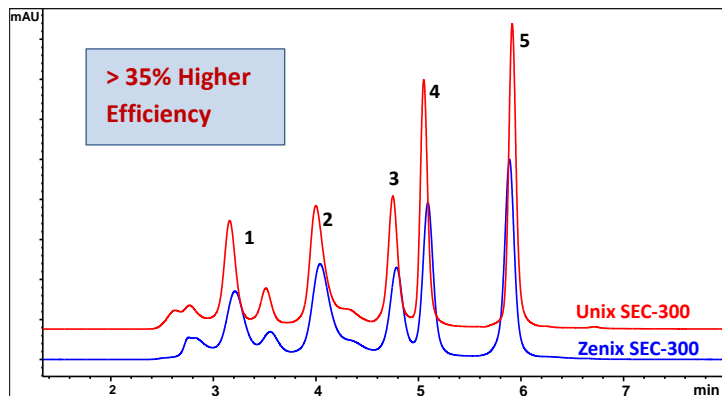
Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;

Instrument: UHPLC; Detector: UV 214 nm; Column temperature: 25 °C;

Injection volume: 1 μL ; Samples: 1. Thyroglobulin 670 kD; 2. γ -globulin

(bovine) 158 kD; 3. Ovalbumin (chicken) 44 kD; 4. Myoglobin (horse) 17 kD;

5. Vitamin B12 1.35 kD



Application



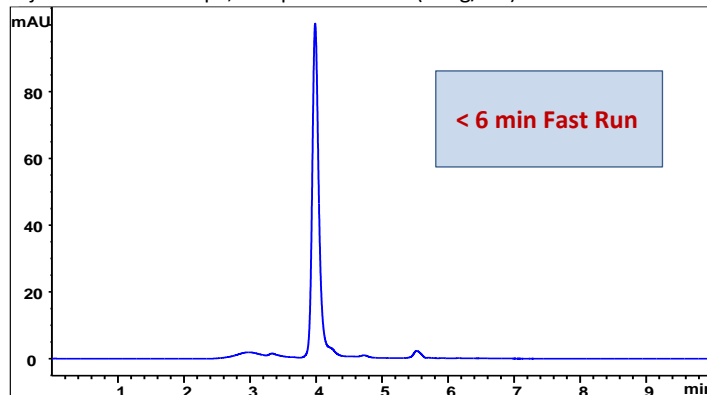
mAb 321 Separation on Unix™ SEC-300

Column: Unix™ SEC-300 (1.8 μm , 300 Å, 4.6 x 150 mm, PN: 211300-4615)

Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;

Instrument: UHPLC; Detector: UV 280 nm; Column temperature: 25 °C;

Injection volume: 1 μL ; Sample: mAb 321 (5 mg/mL)



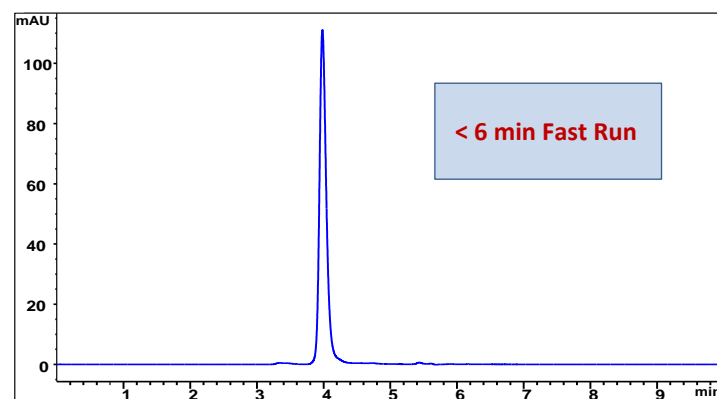
Erbixux (Cetuximab) Separation on Unix™ SEC-300

Column: Unix™ SEC-300 (1.8 μm , 300 Å, 4.6 x 150 mm, PN: 211300-4615)

Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;

Instrument: UHPLC; Detector: UV 280 nm; Column temperature: 25 °C;

Injection volume: 2.5 μL ; Sample: Erbixux (2 mg/mL)



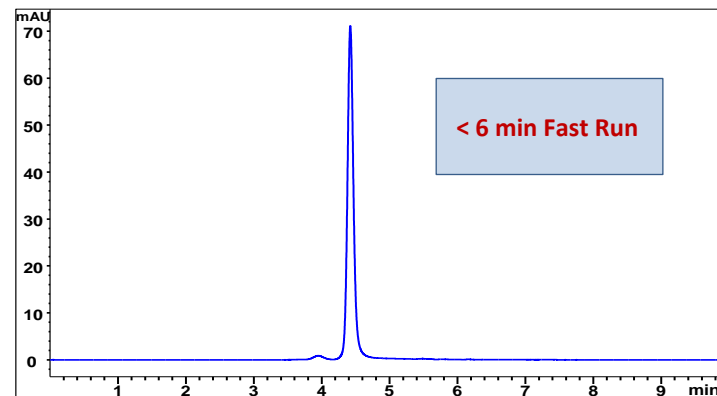
Transferrin Apo Separation on Unix™ SEC-300

Column: Unix™ SEC-300 (1.8 μm , 300 Å, 4.6 x 150 mm, PN: 211300-4615)

Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;

Instrument: UHPLC; Detector: UV 280 nm; Column temperature: 25 °C;

Injection volume: 1 μL ; Sample: Transferrin Apo (5 mg/mL), about 80 kD;



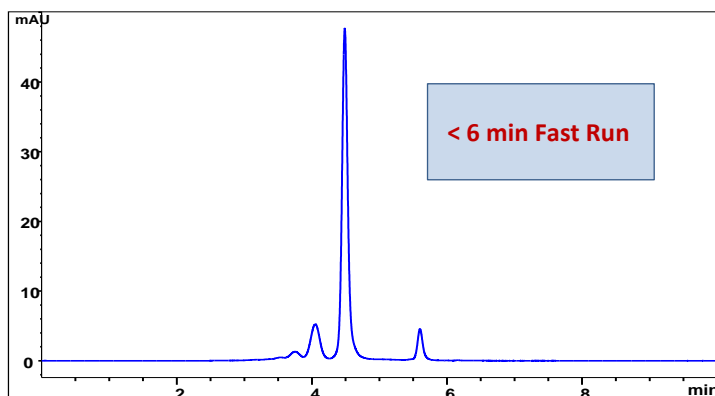


1.8 μm 300 Å UHPLC SEC



BSA Separation on Unix™ SEC-300

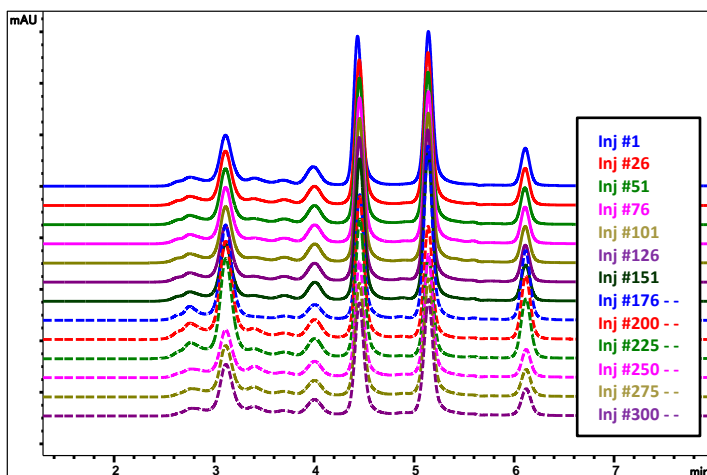
Column: Unix™ SEC-300 (1.8 μm, 300 Å, 4.6 x 150 mm, PN: 211300-4615)
 Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;
 Instrument: UHPLC; Detector: UV 280 nm; Column temperature: 25 °C;
 Injection volume: 1 μL; Sample: BSA (5 mg/mL), 66 kD;



Lifetime Test

Unix™ Lifetime Test - Protein Standards

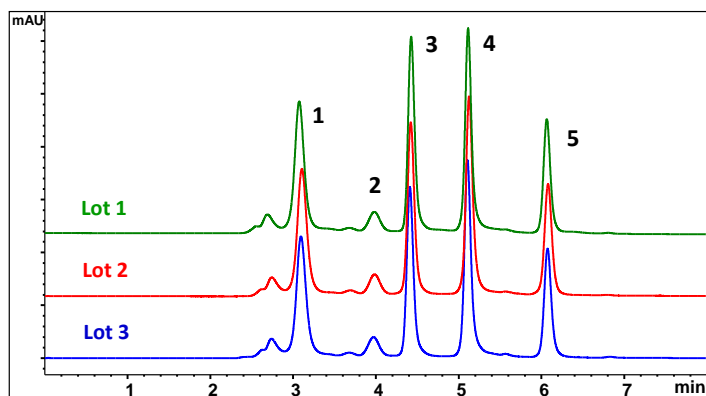
Column: Unix™ SEC-300 (1.8 μm, 300 Å, 4.6 x 150 mm, PN: 211300-4615)
 Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;
 Instrument: UHPLC; Detector: UV 214 nm; Column temperature: 25 °C;
 Injection volume: 3 μL; Samples: 1. Thyroglobulin 670 kD; 2. BSA dimer 132 kD; 3. BSA 66 kD; 4. Ribonuclease A 14 kD; 5. Uracil 120 Da



Lot-to-Lot Reproducibility

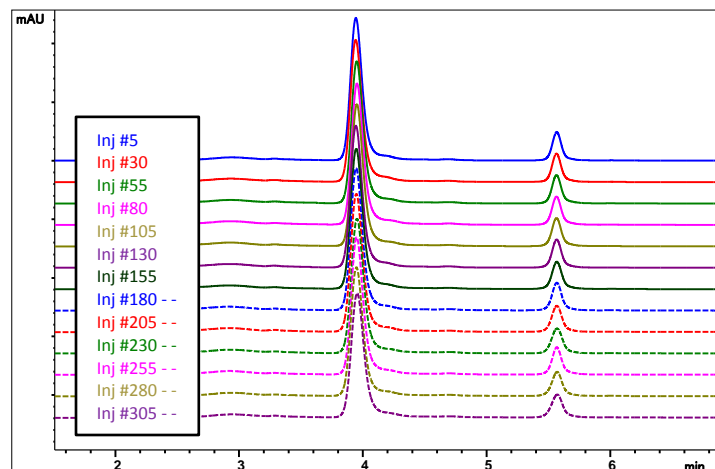
Unix™ Lot-to-Lot Reproducibility on Protein Standards

Column: Unix™ SEC-300 (1.8 μm, 300 Å, 4.6 x 150 mm, PN: 211300-4615)
 Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;
 Instrument: UHPLC; Detector: UV 214 nm; Column temperature: 25 °C;
 Injection volume: 1 μL; Samples: 1. Thyroglobulin 670 kD; 2. BSA dimer 132 kD; 3. BSA 66 kD; 4. Ribonuclease A 14 kD; 5. Uracil 120 Da



Unix™ Lifetime Test - mAb

Column: Unix™ SEC-300 (1.8 μm, 300 Å, 4.6 x 150 mm, PN: 211300-4615)
 Mobile phase: 150 mM phosphate buffer; Flow rate: 0.35 mL/min;
 Instrument: UHPLC; Detector: UV 214 nm; Column temperature: 25 °C;
 Injection volume: 1 μL; Samples: mAb 321 (5 mg/mL)



Order Information

PN#	Description
211300-4615	Unix SEC-300, 1.8 μm, 300 Å, 4.6 x 150 mm
211300-4625	Unix SEC-300, 1.8 μm, 300 Å, 4.6 x 250 mm
211300-4630	Unix SEC-300, 1.8 μm, 300 Å, 4.6 x 300 mm
102000-P356	Precolumn Filter 0.5 μm PEEK
102001-P356	PEEK Refill Frits, 0.5 μm, 5 Units/pk

