



Thinking about ~\$80K UHPLC Bio System and sub 2 SEC column? What if Similar High Resolution & Fast Biomolecule Separation can be achieved with just One Single Column using your existing regular HPLC?

Sepax Zenix[™] SEC 7.8x200mm provides valuable solution



Zenix[™] SEC sub 2 SEC 7.8x200mm column + **UHPLC** Bio Regular HPLC svstem

Highlighted FACTS:

3um and 300A: high efficiency 3um, 300A pore for high resolution separation of MAb aggregates and main peak

Fast and low back pressure: 2 ml/min flow rate at 1,600 psi, resulting in ~3 minute assays

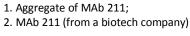
Lot-to-lot: same consistency you come to expect and rely on.

Versatility: compatible with regular conventional HPLC

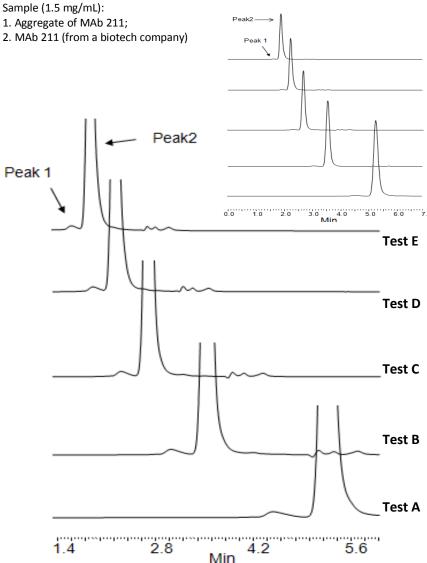
Fast Separation of Mab & its Aggregates in Less Than 3 Minutes

Column: Zenix™ SEC-300 (3 μm, 7.8x200 mm); Mobile phase: 150mM sodium phosphate, pH 7.0; Flow rate: A/B/C/D/E = 1.0/1.5/2.0/2.5/3.0 mL/min

Injection volume: 10 μL;Detection: UV214 nm;



Temperature: Ambient (~23 °C)



Separation results at various flow rates

Test	Flow rate (mL/min)	Backpres sure (psi)	Retention time (min)		% Area		USP
			Peak 1	Peak 2	Peak 1	Peak 2	Resol ution
Α	1.0	550	4.51	5.28	1.38	97.92	1.9
В	1.5	1020	3.04	3.55	1.36	97.84	1.6
С	2.0	1550	2.23	2.71	1.31	97.20	1.6
D	2.5	2050	1.92	2.23	1.38	97.02	1.5
Е	3.0	2450	1.62	1.89	1.26	96.92	1.3

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What is Zenix [®] SEC:

Sepax Zenix[™] SEC (Size Exclusion):

Ultra-high efficiency and resolution SEC column-Zenix™ SEC 3um, available with 100, 150 or 300Å, smallest particle for Sizing in the market, delivers unrivaled resolving power and reproducibility. Ideal for fast assay and HTS lab applications. Made of uniform, hydrophilic, and neutral nanometer thick proprietary surface coating chemically bonded on silica, offers long column lifespan and negligible non-specific interactions.

Technical Specifications:

Phase Zenix™ SEC-300 Neutral, hydrophilic film Material bonded silica Particle size (µm) ~ 300 Pore size (Å)

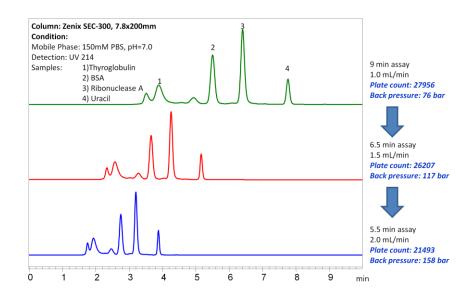
Protein MW range (native) 5,000 - 1,250,000 2 - 8.5 (pH 8.5-9.5 can pH stability be tolerated temporarily)

Backpressure (psi) for ~ 1,100 7.8x300 mm (1.0 mL/min) Backpressure (psi) for ~ 1,000 4.6x300 mm(0.35 mL/min) Maximum backpressure ~ 3,500 Salt concentration range 20 mM - 2.0 M Maximum temperature ~ 80 °C

Mobile phase compatibility Aqueous and organic

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Column Condition:

Mobile phase: 150 mM PBS, pH 7;

Detection: UV 214 Sample: 1) Thyroglobulin

2) BSA

4) Ribonuclease A

5) Uracil

Lot-to-Lot Reproducibility

Mobile phase: 150 mM PBS, pH 7;

Flow rate: 1.0 mL/min; Detection: 214 nm;

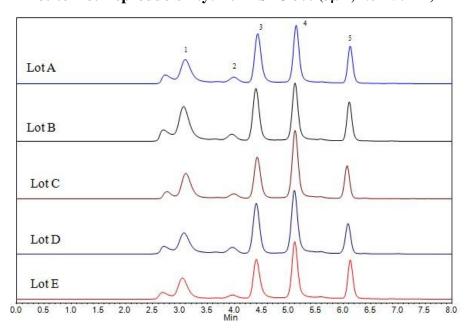
T=Ambient; Injection: 10 μL Sample: 1) Thyroglobulin 2) BSA dimer

3) BSA

4) Ribonuclease A

5) Uracil

Lot-to-Lot Reproducibility: Zenix SEC-300 (3µm, 7.8x150mm)



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