

NEW**YMC
AMERICA, INC.**

BioPro HIC BF

Hydrophobic Interaction Chromatography Column

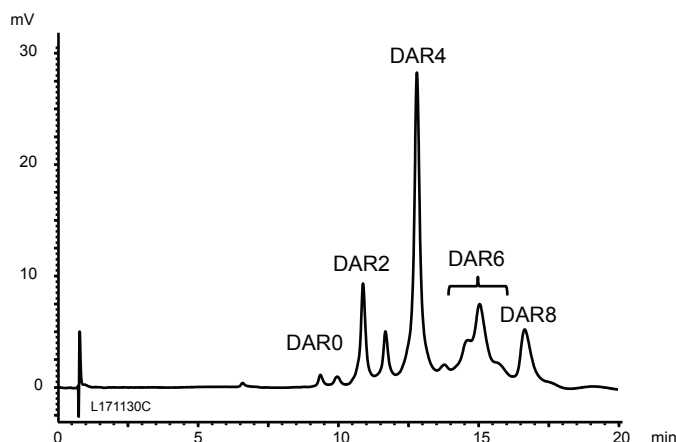
Features

- Effective for separation of proteins and antibodies such as Antibody-Drug Conjugates (ADCs)
- High resolution comparable to sub-3 μm with low operating pressure
- Fast analysis at high flow rates
- Usable for laboratory-scale purification

Specification

Matrix	: Hydrophilic non-porous polymer
Particle size	: 4 μm
Functional group	: Butyl group
Temperature range	: 10-60 $^{\circ}\text{C}$
pH range	: 2.0-12.0

Effective for Drug-to-Antibody Ratio (DAR) analysis of ADCs

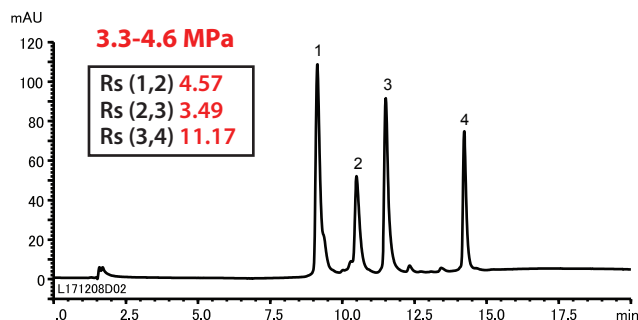


Column	: BioPro HIC BF 4 μm , 100 X 4.6 mm I.D.
Eluent	: A) 50 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) containing 1.5 M $(\text{NH}_4)_2\text{SO}_4$ /2-propanol (95/5) B) 50 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0)/2-propanol (80/20) 0%B (0-1 min), 0-100%B (1-15 min), 100%B (15-20 min)
Temperature	: 25 $^{\circ}\text{C}$
Flow rate	: 1.0 mL/min
Injection volume	: 5 μL
Detection	: UV at 280 nm
Sample	: Cysteine-conjugated ADC mimic (5 mg/mL)

BioPro HIC BF provides superior separation for ADCs and is effective for DAR determination.

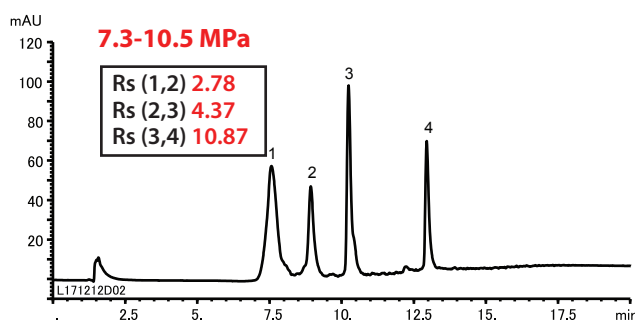
High resolution comparable to sub-3 μm with low operating pressure

BioPro HIC BF (4 μm)



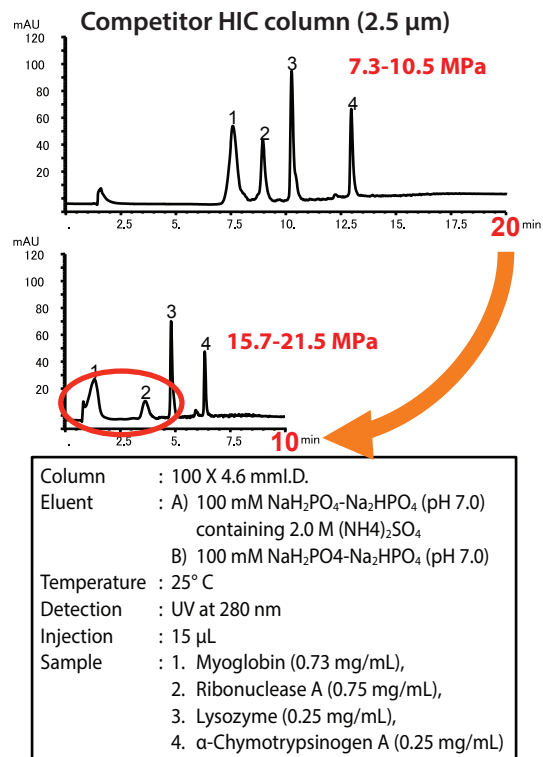
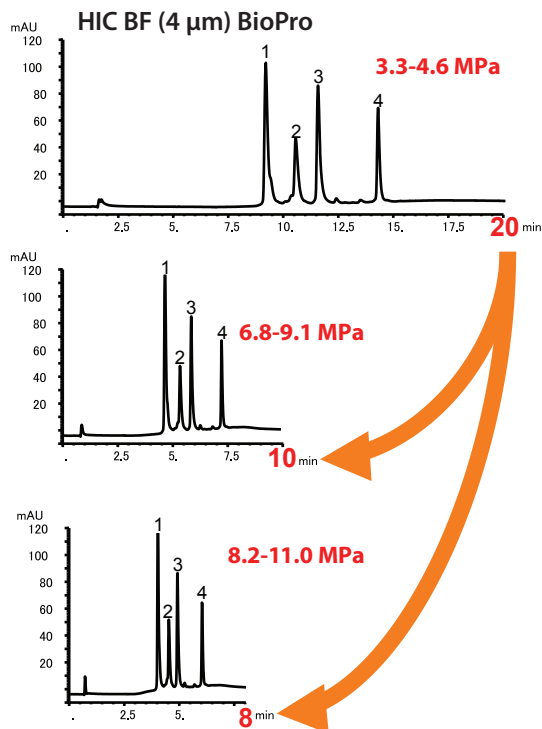
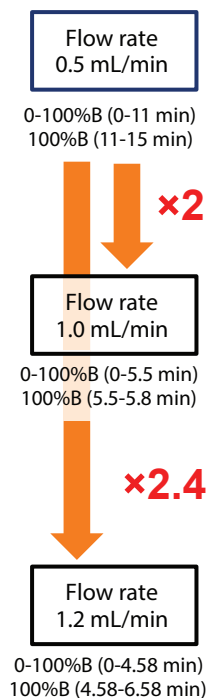
Column	: 100 X 4.6 mm I.D.
Eluent	: A) 100 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) containing 2.0 M $(\text{NH}_4)_2\text{SO}_4$ B) 100 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) 0-100%B (0-11 min), 100%B (11-15 min)
Flow rate	: 0.5 mL/min
Temperature	: 25 $^{\circ}\text{C}$
Detection	: UV at 280 nm
Injection	: 15 μL
Sample	: 1. Myoglobin (0.73 mg/mL), 2. Ribonuclease A (0.75 mg/mL), 3. Lysozyme (0.25 mg/mL), 4. α -Chymotrypsinogen A (0.25 mg/mL)

Competitor HIC column (2.5 μm)



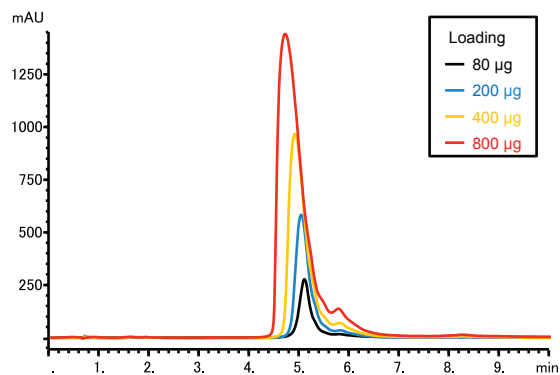
Protein separations are compared between BioPro HIC BF with 4 μm particle size and a competitor's column with 2.5 μm particles. BioPro HIC BF, with its optimized media and packing technology, shows superior peak shape and resolution that compare favorably with the competitor's sub-3 μm column.

Fast analysis at high flow rates



BioPro HIC BF is suitable for fast analysis at high flow rates due to the high mechanical stability of the polymer base particle and its high column efficiency. It exhibits high resolution at higher flow rates, where other columns tend to underperform.

Excellent peak shape under high loading



Column : BioPro HIC BF 4 μm , 100 X 4.6 mm I.D.
Eluent : A) 100 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) containing 2.0 M $(\text{NH}_4)_2\text{SO}_4$
B) 100 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0)
60%B (0-0.5 min), 60-100%B (0.5-7.5 min), 100%B (7.5-10 min)
Flow rate : 1.2 mL/min
Temperature : 30 $^\circ\text{C}$
Detection : UV at 280 nm
Sample : Humanized monoclonal IgG (2.5 mg/mL)

BioPro HIC BF exhibits excellent peak shape when loading is increased. Therefore, it is useful for detecting minor peaks during overload conditions or for laboratory-scale purification.

[Ordering information]

Particle size (μm)	Column size inner diameter X length (mm)	Product number
4	4.6 X 100	BHB00S04-1046WT

Inquire about alternate column dimensions.

Worldwide Availability

YMC Co., LTD.
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YMC Europe GmbH
www.ymc.de

YMC Switzerland LLC
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