

NEW!

Hydrophobic Interaction Chromatography Column BioPro HIC BF

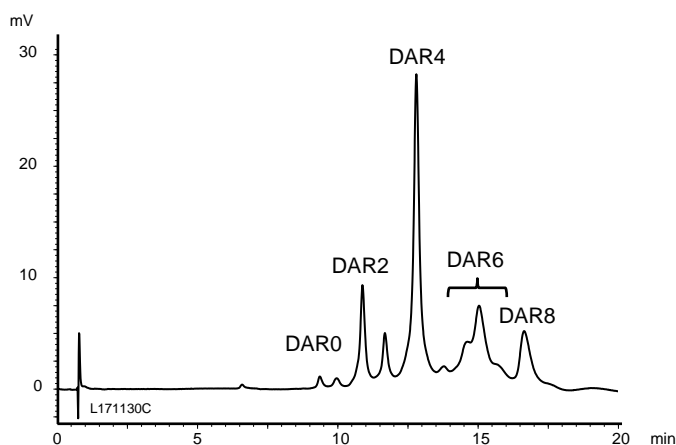
Features

- 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°C
pH range	: 2.0-12.0

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

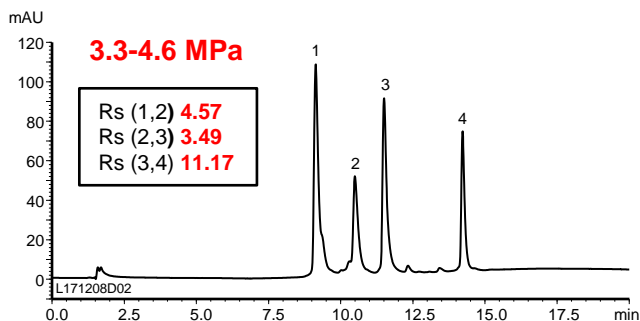


Column	: BioPro HIC BF 4 μm , 100 X 4.6 mm I.D.
Eluent	: A) 50 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) containing 1.5 M $(\text{NH}_4)_2\text{SO}_4$ /2-propanol (95/5) B) 50 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0)/2-propanol (80/20) 0%B (0-1 min), 0-100%B (1-15 min), 100%B (15-20 min)
Temperature	: 25°C
Flow rate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

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

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

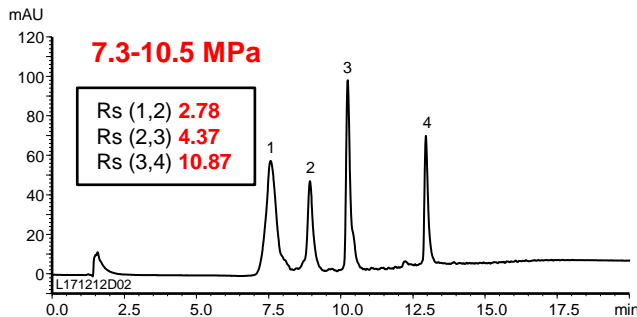
BioPro HIC BF (4 μm)



3.3-4.6 MPa

Rs (1,2) **4.57**
Rs (2,3) **3.49**
Rs (3,4) **11.17**

Competitor HIC column (2.5 μm)



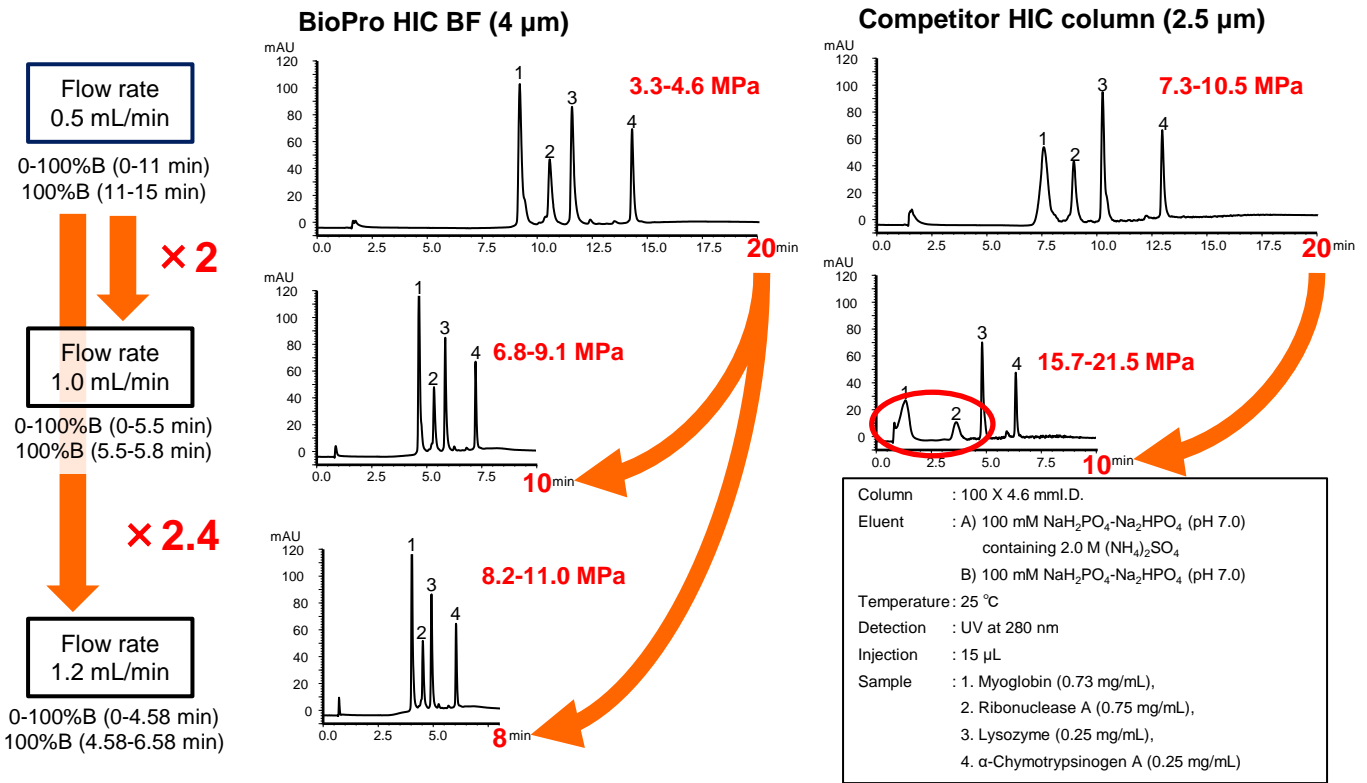
7.3-10.5 MPa

Rs (1,2) **2.78**
Rs (2,3) **4.37**
Rs (3,4) **10.87**

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°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)

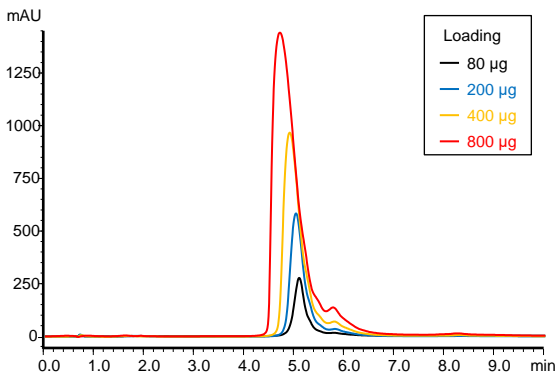
Separation of proteins are compared between BioPro HIC BF with particle size 4 μm and a competitor's HIC column with 2.5 μm . BioPro HIC BF with optimized media design and packing technology has superior resolution comparable to competitors' columns with sub-3 μm .

Fast analysis at high flow rates



BioPro HIC BF is suitable for fast analysis at high flow rates because of its high mechanical stability of polymer beads and high column efficiency. It shows high resolution even at a high flow rate which competitor's column has difficulty in using at.

Excellent peak shape under high loading



Method Details:

- Column: BioPro HIC BF 4 μm, 100 X 4.6 mm I.D.
- Eluent: A) 100 mM NaH₂PO₄-Na₂HPO₄ (pH 7.0) containing 2.0 M (NH₄)₂SO₄; B) 100 mM NaH₂PO₄-Na₂HPO₄ (pH 7.0)
- Flow rate: 1.2 mL/min
- Temperature: 30 °C
- Detection: UV at 280 nm
- Sample: Humanized monoclonal IgG (2.5 mg/mL)

BioPro HIC BF column shows excellent peak shape when the loading amount increases. Therefore, it is useful for detection of minor peaks under overloading condition 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

Please contact us about the product with other sizes. Preparative columns are also available.

Worldwide Availability

YMC America, Inc.
www.ymcamerica.com

YMC Europe GmbH
www.ymc.de

YMC Switzerland LLC
www.ymc-schweiz.ch

YMC Shanghai Rep. Office
www.ymcchina.com

YMC India Pvt. Ltd.
www.ymcindia.com

YMC Korea Co., Ltd.
www.ymckorea.com

YMC Taiwan Co., Ltd.
www.ymctaiwan.com

YMC Singapore Tradelinks Pte. Ltd.
www.ymc.sg



YMC CO., LTD.

YMC Karasuma-Gojo Bldg., 284 Daigo-cho
Karasuma Nishiiru Gojo-dori, Shimogyo-ku
Kyoto, 600-8106, Japan
TEL:+81-75-342-4515 FAX:+81-75-342-4550
www.ymc.co.jp sales@ymc.co.jp

Distributor