YMC BioPro HIC BF

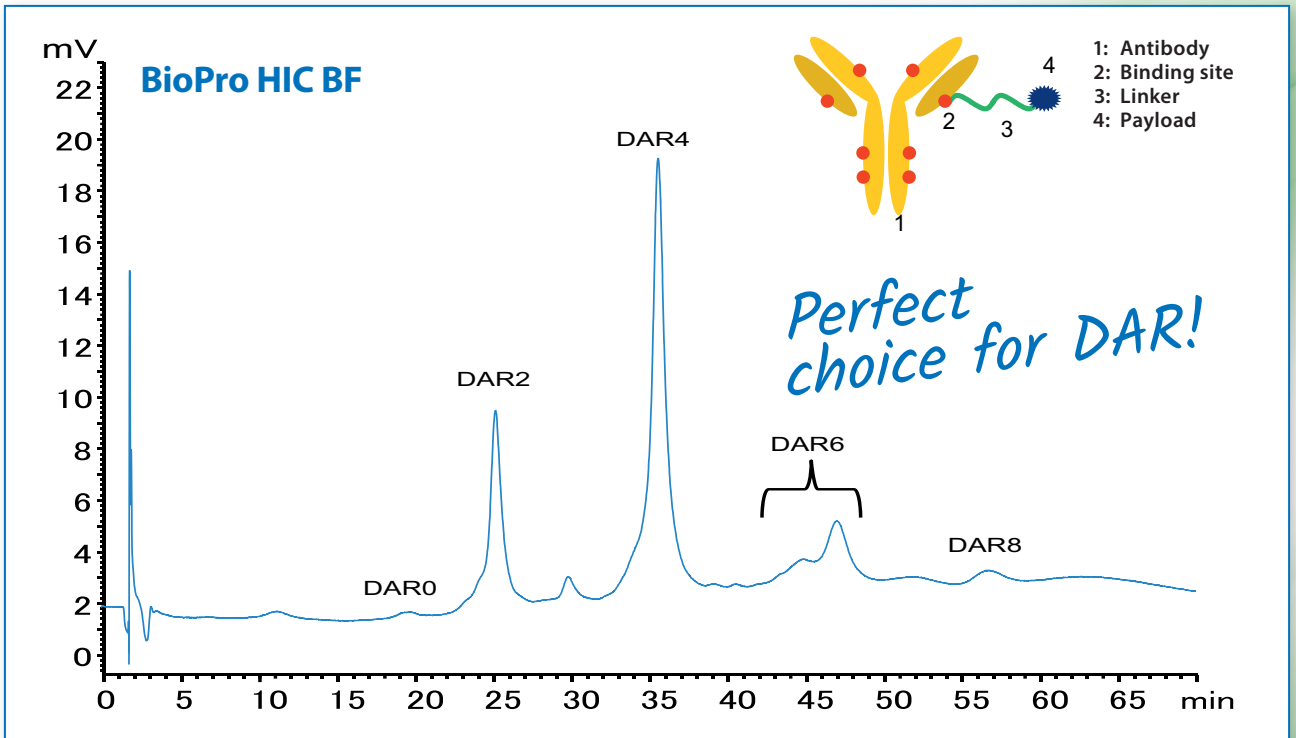
YMC EUROPE GMBH
The Selectivity Company

Features

- ***Especially designed for Antibodies, Antibody-drug conjugates (ADCs), Proteins***
- ***High separation performance***
- ***High-throughput analysis***
- ***Excellent lot-to-lot reproducibility***
- ***Long term stability***
- ***Virtually no carryover effects***

Specifications	
Base particle	hydrophilic polymer (polymethacrylate)
Particle sizes	4 µm
Pore	non-porous
Functional group	butyl
pH range	2 – 12
Temperature range	10 – 60°C

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



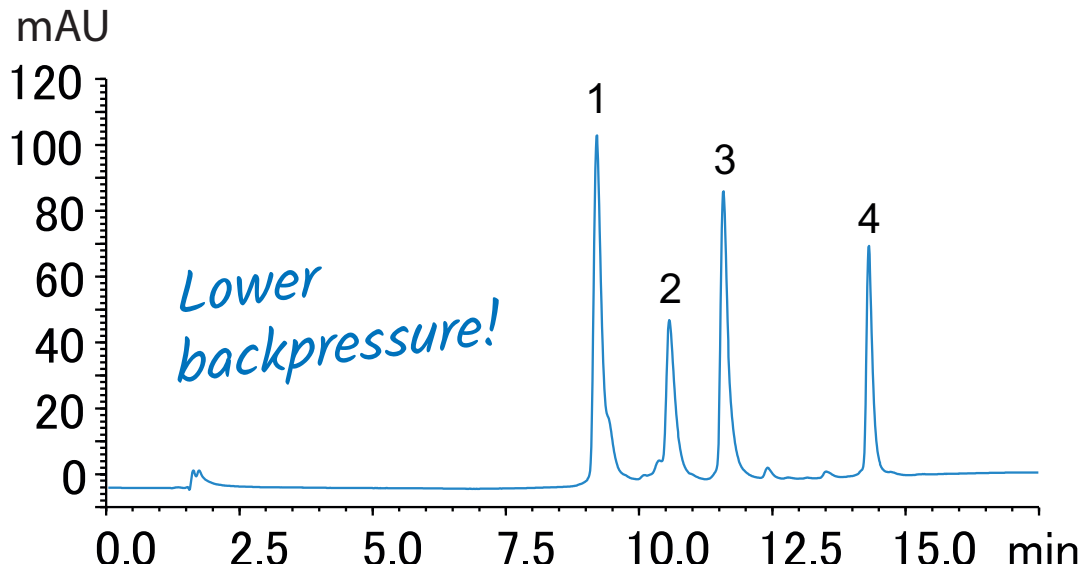
Column:	BioPro HIC BF (4 µm) 100 x 4.6 mm ID
Eluent:	A) 50 mM NaH_2PO_4-Na_2HPO_4 (pH 6.8) containing 1.5 M $(NH_4)_2SO_4$/IPA (95/5) B) 50 mM NaH_2PO_4-Na_2HPO_4 (pH 6.8)/IPA (80/20)
Gradient:	30%B (0-5 min) 30-80%B (5-45 min) 80%B (45-70 min)
Flow rate:	0.4 mL/min
Temperature:	25 °C
Detection:	UV at 280 nm
Injection:	20 µL

Sample:
Cystein-conjugated ADC mimic (1.25 mg/mL)

High Resolution Comparable to sub 3 µm

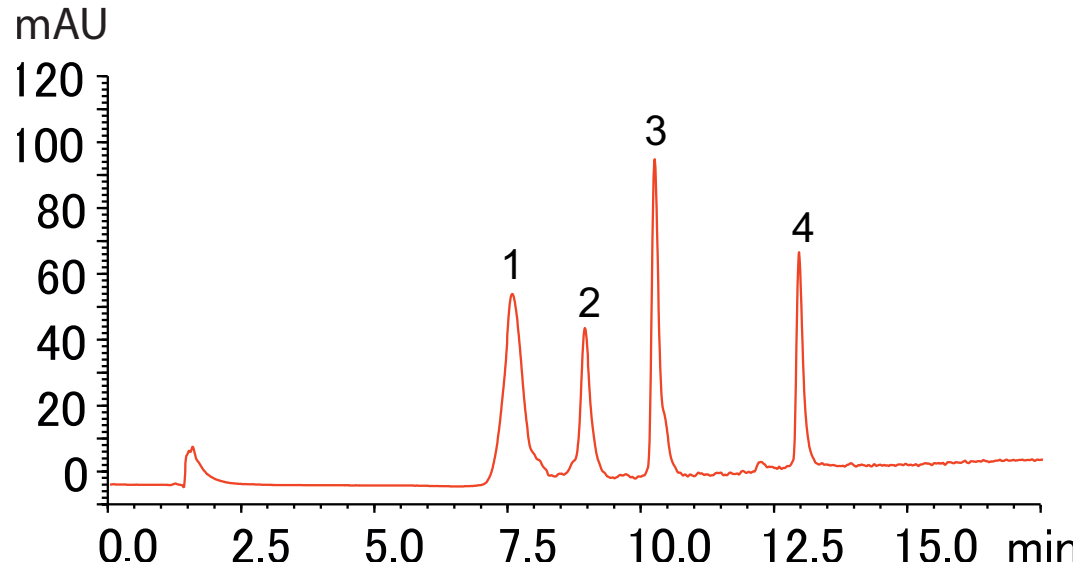
BioPro HIC BF

3.3 – 4.6 MPa



Protein-Pak Hi Res HIC

7.3 – 10.5 MPa



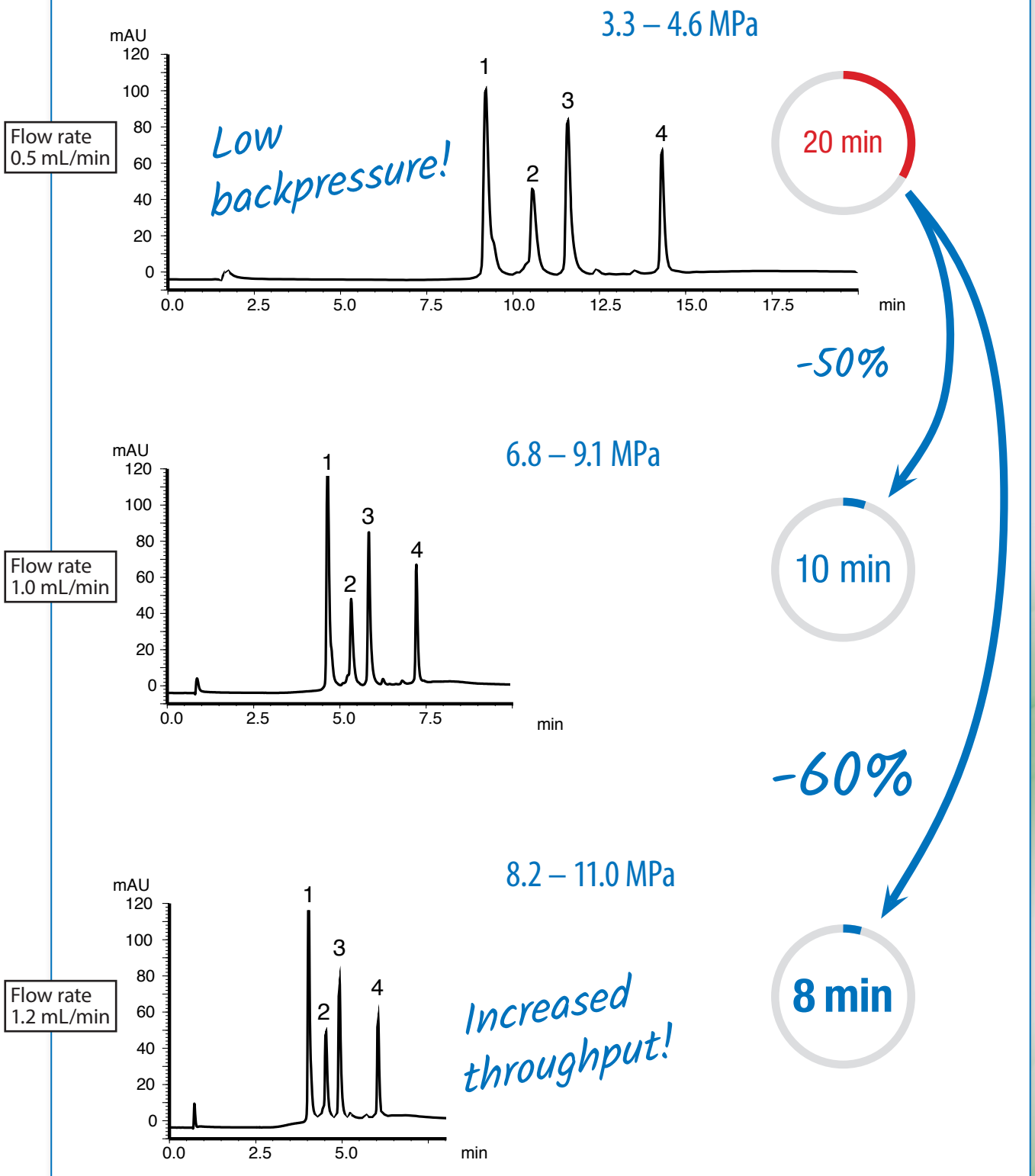
Column:	BioPro HIC BF (4 µm) 100 × 4.6 mm ID ProteinPak Hi Res HIC (2.5 µm) 100 × 4.6 mm ID
Eluent:	A) 100 mM NaH_2PO_4-Na_2HPO_4 (pH 7.0) containing 2.0 M $(NH_4)_2SO_4$ B) 100 mM NaH_2PO_4-Na_2HPO_4 (pH 7.0)
Flow rate:	0.5 mL/min
Gradient:	0-100% B (0-11 min) 100% B (11-15 min)
Temperature:	25 °C
Detection:	UV at 280 nm
Injection:	15 µL

Samples:
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)

Protein-Pak Hi Res HIC is a trademark of Waters Corp.

High Troughput at High Resolution

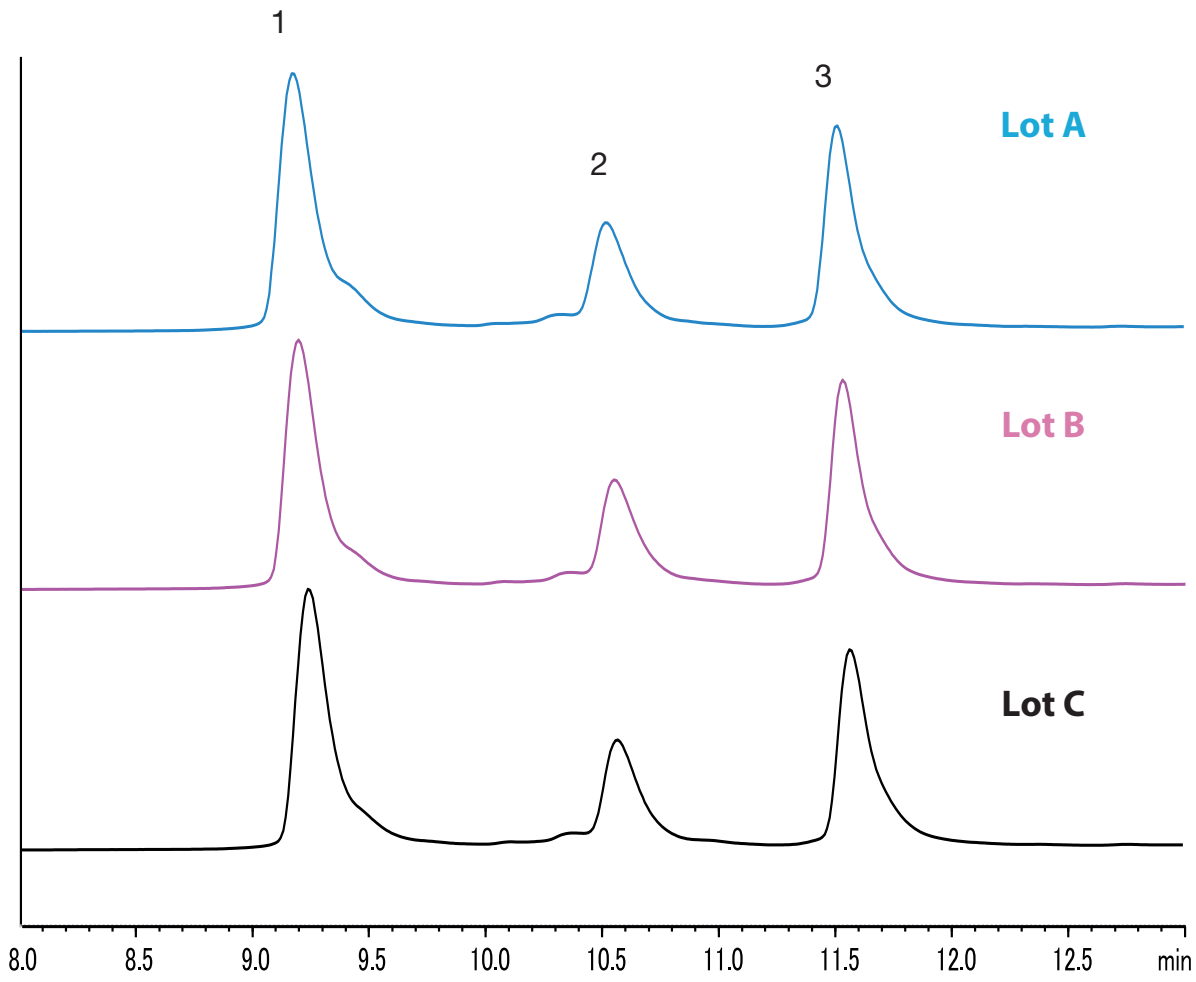
BioPro HIC BF



Column:		BioPro HIC BF (4 µm) 100 × 4.6 mm ID
Eluent:		A) 100 mM NaH_2PO_4-Na_2HPO_4 (pH 7.0) containing 2.0 M $(NH_4)_2SO_4$
		B) 100 mM NaH_2PO_4-Na_2HPO_4 (pH 7.0)
Gradient	0.5 mL/min:	0-100% B (0-11 min) 100% B (11-15 min)
	1.0 mL/min:	0-100% B (0-5.5 min) 100% B (5.5-5.8 min)
	1.2 mL/min:	0-100% B (0-4.58 min) 100% B (4.58-6.58 min)
Temperature:		25 °C
Detection:		UV at 280 nm
Injection:		15 µL

Samples:
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)

Excellent Lot-to-Lot Reproducibility



Column: BioPro HIC BF (4 µm) 100 x 4.6 mm ID
Eluent: A) 100 mM NaH_2PO_4-Na_2HPO_4 (pH 7.0) containing 2.0 M $(NH_4)_2SO_4$
B) 100 mM NaH_2PO_4-Na_2HPO_4 (pH 7.0)
Gradient: 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

Samples:
1. Myoglobin (0.73 mg/mL)
2. Ribonuclease A (0.75 mg/mL)
3. Lysozyme (0.25 mg/mL)

Ordering Information

Phase	Particle size [µm]	Column ID [mm]	Column Length [mm]	Part number
BioPro HIC BF	4	4.6	100	BHB00S04-1046WT

YMC CO., LTD.
YMC Karasuma-Gojo Bld. 284 Daigo-cho,
Karasuma Nishiiru Gojo-dori Shimogyo-ku,
Kyoto 600-8106 Japan
Phone +81(0)75-342-4515, FAX +81(0)75-342-4550
www.ymc.co.jp

YMC Europe GmbH
Schöttmannshof 19
D-46539 Dinslaken
Germany
Phone +49(0)2064/427-0, FAX +49(0)2064/427-222
www.ymc.de

YMC Schweiz GmbH
Im Wasenboden 8
4056 Basel
Phone + 41 61 561 80 50, Fax + 41 61 561 80 59
www.ymc-schweiz.ch