NEW

YMC AMERICA, INC.

YMC-Triart Prep Bio200 C8

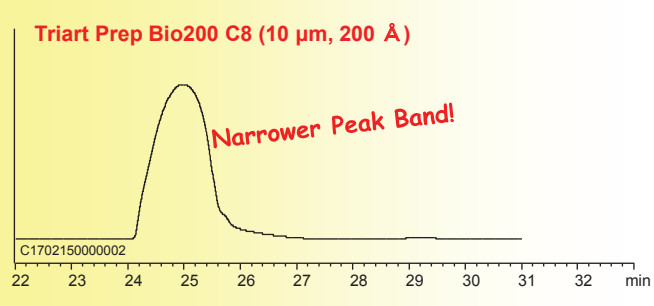
Next Generation Preparative Resin for Peptide Purification

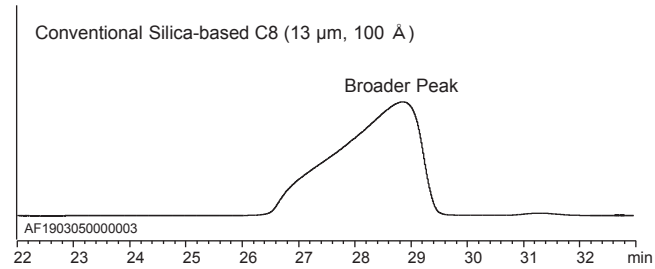
Features

- Designed to maximize loadability, resolution, and recovery for purification of peptides
- Long lasting - alkaline / acidic CIP compatible
- High mechanical stability - allows use with dynamic axial compression columns
- Support files available on request

Sharper Peaks at Higher Loading

Triart Prep Bio200 C8 exhibits narrower peak shapes when compared to conventional silica based C8 - even under high loading. This provides reduction of fraction volume, and can help reduce time spent performing post chromatography processes such as condensation and lyophilization.





Specifications

Matrix:	Organic/inorganic hybrid silica
Particle size:	10 µm
Pore size:	200 Å
Bonded phase:	C8 group
Usable pH range:	2-10 for regular use (2-12 for alkaline CIP)

Column Size	:	150 x 3.0 mm I.D.
Eluent	:	A) 20 mM CH_3COONH_4-CH_3COOH (pH 4.5)/acetonitrile (90/10) B) 20 mM CH_3COONH_4-CH_3COOH (pH 4.5)/acetonitrile (10/90)
Flow rate	:	0.43 mL/min
Temperature	:	25 °C
Detection	:	UV at 295 nm
Injection	:	100 µL
Sample	:	**Insulin human recombinant** (100 mg/mL)

Excellent Mechanical Stability

Triart Prep Bio200 C8 is built on a hybrid particle with high mechanical stability. Triart Prep Bio200 C8 can be packed and unpacked repeatedly and used in dynamic compression columns, with minimal particle fractures and minimal pressure build-up.

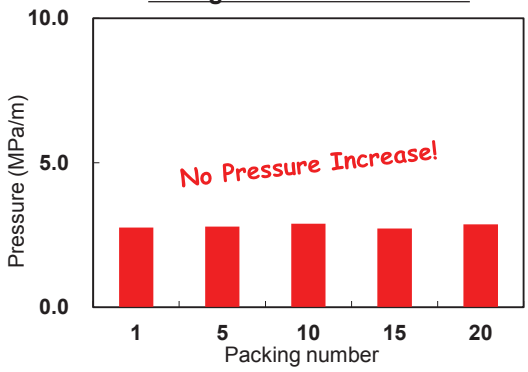
Packing Conditions

Packing Material	:	Triart Prep Bio200 C8 (10 µm, 200Å)
Column Size	:	100 x 50 mm I.D.
Packing Pressure	:	6.5 MPa

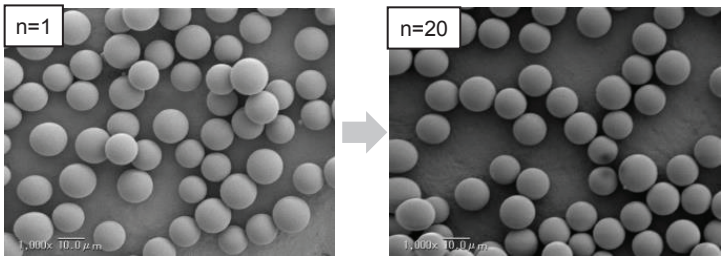
Pressure Measurement Conditions

Eluent	:	methanol/water (85/15)
Flow rate	:	50 mL/min
Temperature	:	ambient

Change in Column Pressure



SEM Images (After 1st Run Vs. 20th Run)



YMC America, Inc.
www.ymcamerica.com

Regeneration with Alkaline Solution

Test Procedure

Sample Injection

↓

Cleaning with Alkaline solution
0.1 M NaOH/acetonitrile (50/50)
(10 column volumes*)

*3 column volumes is sufficient in general.

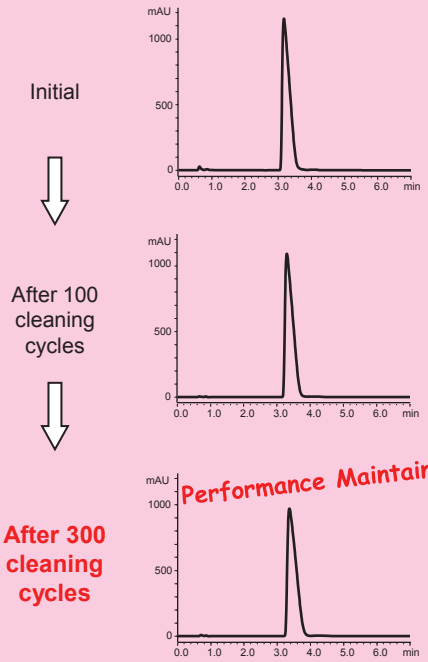
↓

Neutralization and Cleaning with Organic Solvent
1) acetonitrile/water (20/80)
2) acetonitrile/water (90/10)

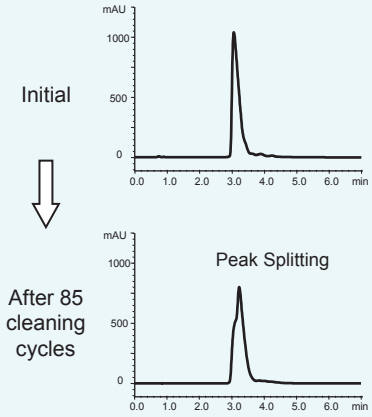
Injection Conditions

Column Size	:	50 x 4.6 mm I.D.
Eluent	:	A) water/TFA (100/0.1) B) acetonitrile 26-36% (0-3 min), 36%B (3-4 min), 26%B (4-7 min)
Flow rate	:	1.0 mL/min
Temperature	:	25 °C
Detection	:	UV at 280 nm
Injection	:	30 µL
Sample	:	**Insulin (10 mg/mL)**

Triart Prep Bio200 C8 (10 µm, 200 Å)



Conventional Silica-based C8 (10 µm, 200 Å)



Repeat sample injections may induce adsorption of proteins, which could result in the loss of retention and/or loss of resolution of the target molecule.
An alkaline cleaning in place (CIP) procedure is an effective remedy to restore performance. Triart Prep Bio200 C8 exhibits outstanding stability in alkaline conditions, and users can expect extended stationary phase lifetime particularly after repeated CIP cycles.

Ordering Information

Product name	Particle size (µm)	Pore size (Å)	Product number
Triart Prep Bio200 C8	10	200	TOB20S11

Worldwide Availability

YMC Co., LTD.
www.ymc.co.jp

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 AMERICA,INC.

YMC America, Inc.
941 Marcon Boulevard
Allentown, PA 18109 USA
Phone: +1-610-266-8650
Fax: +1-610-266-8652
info@ymcamerica.com
www.ymcamerica.com

Distributor

(200629AE-9154-202006)