

# 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

## Specifications

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

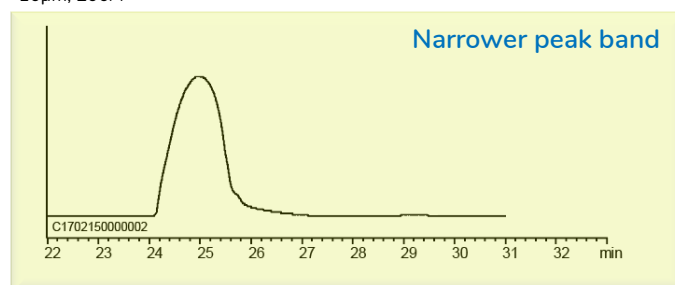
## Sharper peaks at higher loading

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.

<b>Column size</b>	150 x 3.0mm ID
<b>Eluent</b>	A) 20mM CH <sub>3</sub> COONH <sub>4</sub> -CH <sub>3</sub> COOH (pH 4.5)/acetonitrile (90/10) B) 20mM CH <sub>3</sub> COONH <sub>4</sub> -CH <sub>3</sub> COOH (pH 4.5)/acetonitrile (10/90)
<b>Flow rate</b>	0.43mL/min
<b>Temperature</b>	25°C
<b>Detection</b>	UV at 295nm
<b>Injection</b>	100µL
<b>Sample</b>	Insulin human recombinant (100mg/mL)

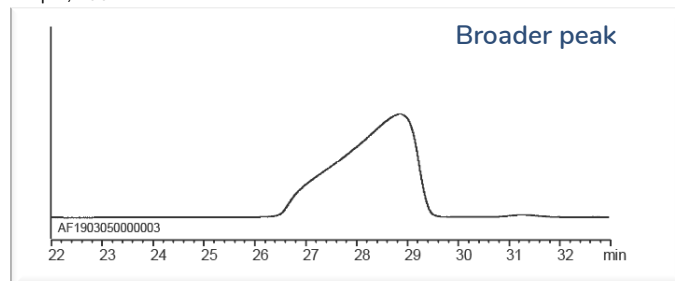
## Triart Prep Bio200 C8

10µm, 200Å



## Conventional Silica-based C8

13µm, 100Å



## Excellent mechanical stability

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

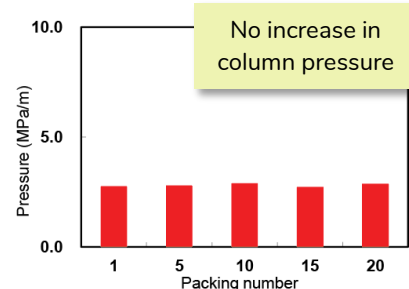
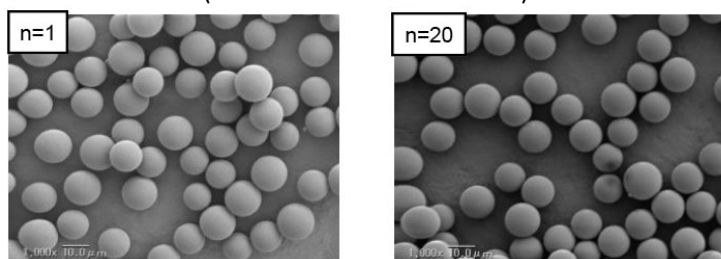
## Pressure Measurement Conditions

<b>Eluent</b>	Methanol/water (85/15)
<b>Flow rate</b>	50mL/min
<b>Temperature</b>	ambient

## Packing Conditions

<b>Packing material</b>	YMC-Triart Prep Bio200 C8 (10µm, 200Å)
<b>Column size</b>	100 x 50mm ID
<b>Packing pressure</b>	6.5MPa

SEM Images  
(after 1st run versus 20th run)

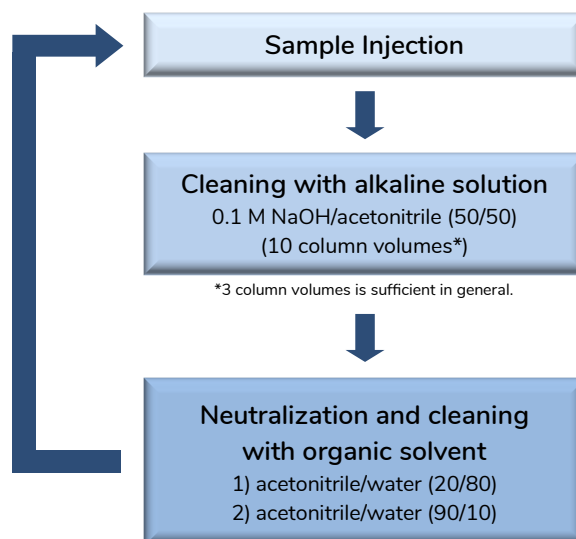


Repeat sample injections may induce adsorption of proteins, which could result in the loss of retention and/or loss of resolution of the target molecule. An alkaline cleaning in place (CIP) procedure is an effective remedy to restore performance. YMC-Triart Prep Bio200 C8 exhibits outstanding stability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

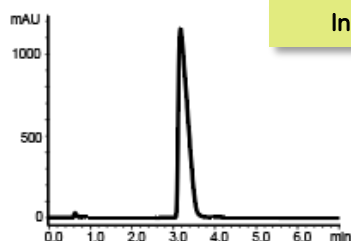
## Injection Conditions

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

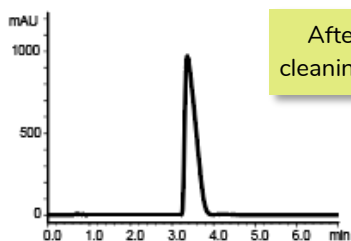
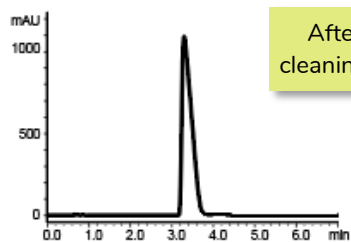
## Test Procedure



### Triart Prep Bio200 C8 10µm, 200Å

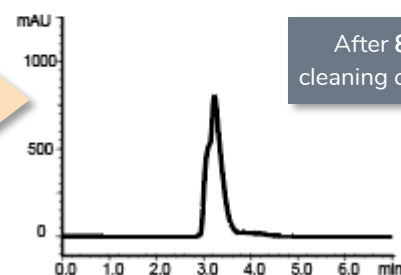
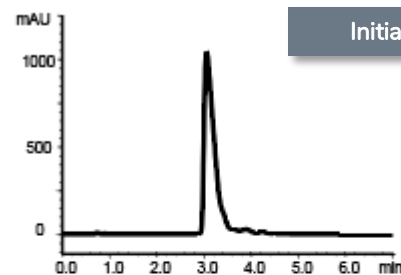


Maintained performance



Peak splitting

### Conventional Silica-based C8 10µm, 200Å



## Ordering Information

Product Name	Particle Size (µm)	Pore Size (Å)	Part Number
YMC-Triart Prep Bio200 C8	10	200	TOB20S11



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