

New MegaStar Prep Column for Insulin Purification



ISO 9001:2015

Orochem offers 10 micron spherical bulk C8 material and prep columns for Insulin purification. MegaStar C8 is made by the sol-gel process using extremely pure silica, with an excellent control of particle size and pore size distribution. It is a direct replacement of Kromasil for insulin purification without changing process.

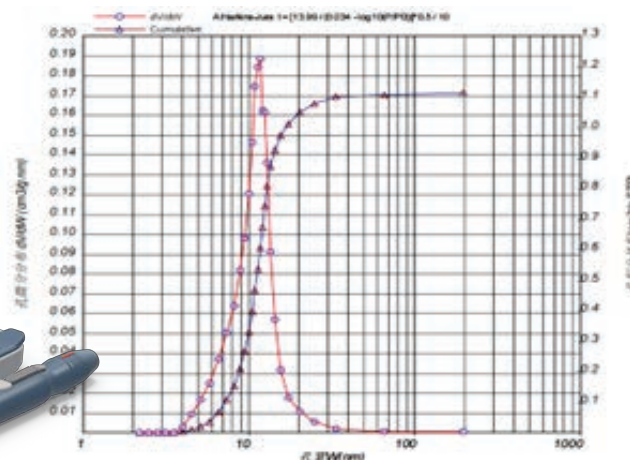
Features and Specifications

- ✧ Particle size: 10 μm
- ✧ Pore sizes: 100 \AA
- ✧ Chemistry: C8, C18
- ✧ Pore distribution ($\pm 25 \text{\AA}$) is 70-80%
- ✧ Surface area (m^2/g): 320
- ✧ C8 phase C%: 12

Advantages

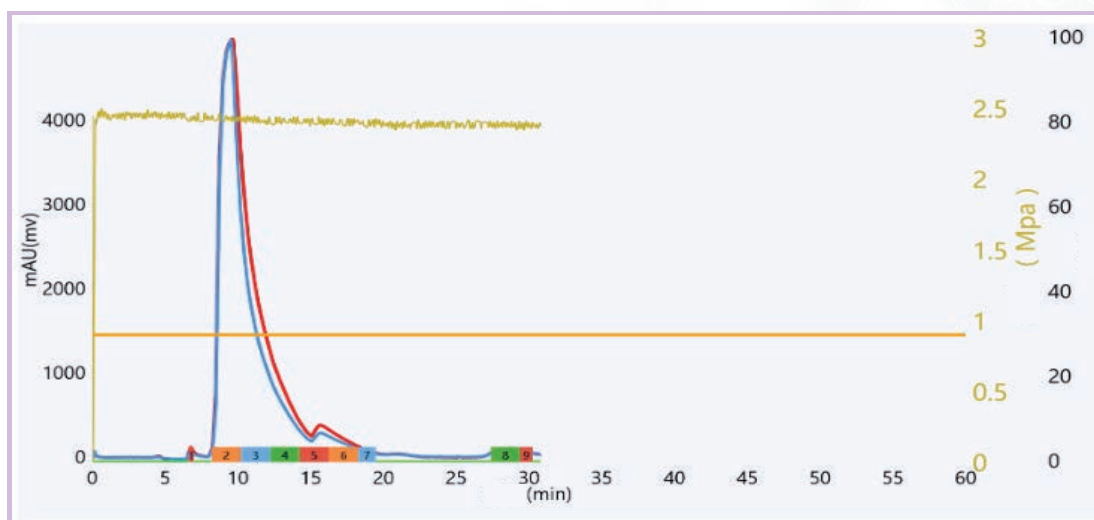
- ✧ Ultra high purity silica with low metal content
- ✧ Asymmetric bonding with increasing capacity and improving resolution
- ✧ Uniform pore size
- ✧ Lower tailing
- ✧ High pH stability
- ✧ For initial step of purification of raw material, the capacity is about 8%; For final polishing of insulin purification, the capacity is 2%.

Insulin Purification



Insulin purification by MegaStar C8 Conditions:

Column	Orosil-HS C8, 10x250 mm Column
Sample Loading Amount (mg)	45
Mobile Phase A	0.1% TFA/water
Mobile Phase B	Acetonitrile
Gradient	28% B
Flow (mL/min)	3
UV Wavelength (nm)	220
Fraction Collection (min/Fr)	2
Final Insulin Purity (%)	99.48
Yield (%)	87.47



For Free Consultation, Please Enquire:

Dr. Anil Oroskar, PhD
 Dr. Asha Oroskar, PhD

USA HQ

Tel: 630 210 8300
 info@orochem.com
 www.orochem.com

340 Shuman Blvd
 Naperville, IL 60563
 USA

INDIA

Tel: +91-22-27603569
 orochemindia@orochem.com
 www.orochem.com

Plot# R 588/1, Near Golden Garage
 T.T.C. Industrial Area, M.I.D.C.
 Rabale Navi Mumbai 400701 India