



Generik MC-HIC Media

(Hydrophobic Interaction Chromatography Media)

Product Description

Generik MC chromatographic media are composed of polymethacrylate beads with high physical and chemical stability. The media have an average particle size of 30 μm with pore size of 800 \AA .

Generik MC30-HIC Butyl media are specially designed for hydrophobic interaction chromatography. On the surface of the polymethacrylate beads, alkyl groups such as butyl as shown in **Figure 1** or aryl groups such as phenyl are attached via chemical bonding, which provides hydrophobic interaction with analytes.

Generik MC30-HIC Butyl media provides excellent high efficiency and recovery separation of bio-molecules such as mAb (monoclonal antibody), ADC (antibody drug conjugate) and related protein fragments, DNA and oligonucleotides. The media also tolerates high-pressure operation up to 100 bars. Generik MC30-HIC media is applicable at different stage for laboratory-scale, pilot and industrial process chromatograph.

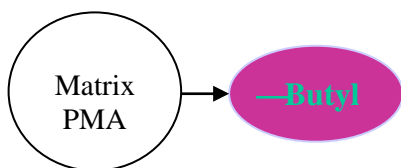


Figure 1. Chemical compositions of Generik MC30-HIC Butyl.

Characteristics

- High chemical stability for low leaching
- Spherical particles with narrow particle size distribution
- High accessible surface area and high loading capacity
- High retentivity and selectivity
- Wide pH applications (pH=2-14)
- Available from grams to multi-Kilogram
- High-pressure limit

Technical Specifications

Media Type	Generik MC30-HIC Butyl
Packing	70% (v/v) slurry in 20% ethanol
Matrix	Polymethacrylate
Particle Size	20 ~ 45 μm (mean 30 μm)
Pore Structure	800 \AA
Dynamic Binding Capacity*	45 \pm 5 mg lys. / mL
pH Stability	2-14
Operating Temperature	Up to 40 $^{\circ}\text{C}$
Operating Pressure	Up to 100 bar
Mobile Phase Compatibility	Compatible with aqueous solution, a mixture of water and acetonitrile, acetone, or methanol. Typical buffers: phosphate, Tris, & acetate.
Linear Flow Rate	Up to 7200 cm/hour

* Generik MC30-HIC Butyl: DBC was tested with Lysozyme (1 mg/mL) in 25 mM phosphate + 2 M $(\text{NH}_4)_2\text{SO}_4$ with 360 cm/h flow rate at 280 nm, 10% breakthrough.

Product Order Information

Description	Particle size	Resin volume	P/N
Generik MC30-HIC Butyl	30 μm	100 mL	248030-0000
Generik MC30-HIC Butyl	30 μm	1 L	248030-0000
Generik MC30-HIC Butyl	30 μm	5 L	248030-0000
Generik MC30-HIC Butyl	30 μm	20L	248030-0000

Different package sizes also available

