

HiPrep Butyl FF

Product Information

Cat#No# Hi-131P

Product Overview

HiPrep Butyl FF (High Sub) 16/10, are prepacked Butyl Sepharose 4 Fast Flow columns ready to use for hydrophobic interaction chromatography (HIC). The columns are designed for initial and intermediate purification, removing bulk impurities.

Characteristic

20 mL HIC columns provide fast, preparative separation of proteins and other biomolecules. Provide high capacity, excellent flow properties, and reliable, reproducible separations. Butyl Sepharose 4 Fast Flow is a well-established, standard aliphatic HIC resin for capture and intermediate purification. Compatible with simple pump-based configurations or chromatography system.

Maximum operating pressure

5 bar [0.5 MPa] (72 psi)

Matrix

Cross-linked agarose, 6%, spherical

Average particle size

~ 90 µm

Ligand

Phenyl

Ligand density

~ 45 µmol/mL resin (high sub)

Recommended flow rate

< 300 cm/h

Recommended column height

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100 mm

Chemical stability

Stable to commonly used aqueous buffers, 1.0 M NaOH, 5 M urea, 6 M guanidine hydrochloride, 30% isopropanol, and 70% ethanol.

pH working range

3 to 13

CIP stability

2 to 14

Storage

4°C to 30°C, 20% Ethanol

Elution buffer

50 mM sodium phosphate, pH 7.0

Cleaning-in-place

80 mL of a 1.0 M NaOH (0.01 M NaOH for Phenyl Sepharose HP) solution (removes precipitated proteins, hydrophobically bound proteins, and lipoproteins from the column) followed by 80 mL distilled water.

80 mL of 70% ethanol or 30% isopropanol (removes proteins, lipoproteins, and lipids that are strongly hydrophobically bound to the column) followed by 60 mL distilled water.

Pack size

20 mL

Maximum flow velocity

10 mL/min (300 cm/h)

Dimensions

16 × 100 mm

Column i.d.

16 mm



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Column hardware pressure limit

0.5 MPa (5 bar, 72.5 psi)
