

HiPrep Phenyl HP

Product Information

Cat#No# Hi-134P

Product Overview

HiPrep 16/10 Phenyl HP is a prepacked column designed for preparative hydrophobic interaction chromatography (HIC) with good resolution.

Description

Phenyl Sepharose HP chromatography resin is based on a matrix of highly cross-linked agarose beads, which have been derivatized with phenyl groups. These are attached to the agarose matrix via uncharged, chemically stable ether linkages. The result is a truly hydrophobic resin with no ionic properties.

Characteristic

Aromatic HIC resin for intermediate purification and polishing.

Selectivity similar to Phenyl Sepharose 6 Fast Flow (Low Sub) but higher resolution due to the smaller 34 µm bead size.

Provides fast, easy high-capacity separations in a convenient format.

Maximum operating pressure

3 bar [0.3 MPa] (44 psi)

Matrix

Cross-linked agarose, spherical

Average particle size

~ 34 µm

Ligand

Phenyl

Ligand density

~ 25 µmol/mL resin

Recommended flow rate

HiPrep Phenyl HP

< 150 cm/h

Recommended column height

100 mm

Chemical stability

Stable to commonly used aqueous buffers, 0.01 M NaOH, 8 M urea, 6 M guanidine hydrochloride, 30% isopropanol, and 70% ethanol.

pH working range

3 to 12

CIP stability

3 to 12

Storage

4 to 30°C, 0.2 M Sodium Acetate in 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

5 mL/min (150 cm/h)

Dimensions

16 × 100 mm



HiPrep Phenyl HP

Column i.d.

16 mm

Column hardware pressure limit

0.5 MPa (5 bar, 72.5 psi)
