

HiTrap Phenyl HP

Product Information

Cat#No# Hi-160P

Product Overview

HiTrap Phenyl HP are prepacked Phenyl Sepharose High Performance columns for high-resolution hydrophobic interaction chromatography (HIC). The columns are used for small-scale protein purification as well as for screening of binding and elutions conditions.

Characteristic

Provide convenient and fast small-scale protein purifications.

Phenyl Sepharose High Performance is a well-established aromatic HIC resin, designed for intermediate and polishing steps where high resolution has priority.

Flexible design for use with syringes, single laboratory pump, or chromatography system.

High flow rates and high capacities.

Excellent and easy scale-up achieved by connecting several HiTrap columns in series or using HiPrep columns.

Applications

For screening of selectivity, binding and elution conditions, as well as small scale purifications.

Maximum operating pressure

5 bar [0.5 MPa] (70 psi)

Recommended flow rate

< 1 ml/min

Recommended column height

25 mm

Storage

4°C to 30°C, 20% Ethanol

Elution buffer

HiTrap Phenyl HP

50 mM sodium phosphate, pH 7.0.

Equilibration

1. Fill the syringe or pump tubing with elution buffer (low salt buffer). Remove the stopper. To avoid introducing air into the column, connect the column drop-to-drop to either the syringe (via the luer connector) or to the pump tubing.
2. Remove the snap-off end at the column outlet.
3. Wash the column with 5 column volumes (CV) of elution buffer at 1 mL/min.
4. Wash with 5 to 10 CV start buffer (high salt buffer). If air is trapped in the column, wash with buffer until the air disappears.

Cleaning-in-place

HIC adsorbents can normally be regenerated by washing with distilled water. To prevent gradual build-up of contaminants on the column, regular cleaning is recommended. Precipitated proteins can be removed by washing with 5 CV 0.5 to 1.0 M NaOH followed by 5 to 10 CV water at a flow rate of 1 mL/min. Strongly bound substances can be removed by washing with 5 to 10 CV of up to 70% ethanol or 30% isopropanol.

Pack size

5 × 1 mL

Maximum operating backpressure

4 mL/min

Dimensions

7 × 25 mm

Column i.d.

7 mm

Column hardware pressure limit

5 bar (0.5 MPa)
