

HiTrap Butyl HP

Product Information

Cat#No#	Hi-148P
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Product Overview

HiTrap Butyl HP are prepacked Butyl 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 elution conditions.

Characteristic

Provide convenient and fast small-scale protein purifications.

Butyl Sepharose High Performance is an aliphatic HIC resin, designed for intermediate and polishing step 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)

Matrix

cross-linked agarose, spherical

Average particle size

~34 µm

Ligand density

~ 50 µmol Butyl/mL resin

Dynamic binding capacity

HiTrap Butyl HP

~ 38 mg β -lactoglobulin/mL resin

Recommended flow rate

\leq 100 cm/h

Recommended column height

25 mm

Chemical stability

Stable to commonly used aqueous buffers, 0.01 M NaOH, 1.0 M acetic acid, 8 M urea, 6 M guanidine hydrochloride, 30% acetonitrile, 70% ethanol, 1 mM HCl, 30% isopropanol, 3 M (NH₄)₂SO₄, and 2 % SDS.

pH working range

3 to 12

CIP stability

2 to 14

Storage

4°C to 30°C, 20% Ethanol

Pack size

5 × 1 mL

Maximum flow velocity

4.0 mL/min (1 mL), 20 mL/min (5 mL)

Dimensions

7 × 25 mm

Column i.d.

7 mm

Column hardware pressure limit

5 bar (0.5 MPa, 73 psi)

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Functional group

Butyl —O—(CH₂)₃—CH₃
