

HiScreen Capto Butyl

Product Information

Cat#No# Hi-138P

Product Overview

Capto Butyl is hydrophobic interaction chromatography (HIC) resins used in the capture and intermediate stages of protein purification.

Description

HiScreen columns are prepacked with a range of BioProcess chromatography resins (resins) and designed for method optimization and parameter screening. HiScreen columns have small bed volumes (4.7 mL), reducing the cost of sample and buffer consumption. The resins used in HiScreen columns are also available in other prepacked formats and as bulk packs, for all scales of work from development and pilot studies to routine production.

Characteristic

Prepacked with Capto Butyl Excellent for method optimization and parameter screening due to the 10 cm bed height.

Easily connected in series to achieve 20 cm bed height.

Small bed volume for fast results and minimal sample/buffer consumption.

Reproducible results, scalable to BioProcess columns packed with the same resin using the same flow velocity.

Maximum operating pressure

At least 600 cm/h at < 0.3 MPa in a 1 m diameter column and 20 cm bed height (at 20°C using process buffers with the same viscosity as water)

Matrix

Highly cross-linked agarose, spherical

Average particle size

~ 75 µm

Ligand

HiScreen Capto Butyl

Butyl

Ligand density

~ 53 μ mol Butyl/mL resin

Dynamic binding capacity

~ 27 mg BSA/mL resin

Recommended flow rate

<600 cm/h

Recommended column height

100 mm

pH working range

3 to 13

CIP stability

2 to 14

Storage

4 to 30°C, 20% Ethanol

Elution buffer

50 mM sodium phosphate, pH 7.0.

Cleaning-in-place

1. Wash with 3 column volumes (CV) of water or elution buffer.
2. Wash with 4 CV 0.5 to 1.0 M NaOH at a low flow rate (≤ 0.78 mL/min (≤ 100 cm/h)).
3. Wash with at least 3 CV water.

Pack size

1 \times 4.7 mL

Dimensions

HiScreen Capto Butyl

7.7 × 100 mm

Column i.d.

7.7 mm

Column hardware pressure limit

0.8 MPa (8 bar, 116 psi)
