HiScreen MabSelect Xtra

Product Information

Cat#No#	Hi-011P

Product Overview

HiScreen MabSelect Xtra is an excellent choice for method optimization and parameter screening for capture of monoclonal antibodies (MAbs).

Description

MabSelect Xtra is a recombinant protein A-based affinity medium engineered to give an exceptionally high dynamic binding capacity for monoclonal antibodies. In addition, MabSelect Xtra is optimized for Fc-fusion proteins. Higher capacity translates directly to lower cost of production.

Characteristic

High dynamic binding capacity and suitable for highexpression feedstocks.
Improved process economics through reduced raw materials costs and/or reduced number of cycles.
Very low, unspecific binding due to high ligand selectivity and matrix hydrophilicity.
High capacity for many Fc-fusion proteins.

Maximum operating pressure

3 bar [0.3 MPa] (44 psi)

Average particle size

75 µm

Ligand

Recombinant protein A (E. coli).

Coupling chemistry

Epoxy

Dynamic binding capacity

~ 40 mg human IgG/ml medium

Recommended flow rate

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100–300 cm/h
Recommended column height
100 mm
Chemical stability
Stable in all aqueous buffers commonly used in protein A chromatography: 0.1 M 20% sodium citrate/HCl (pH 3), 6 M Gua-HCl, 6 M urea, 20% ethanol, 2% benzyl alcohol
pH working range
3–10
CIP stability
2–12
Temperature stability
2°C–40°C
Storage
2°C to 8°C in 20% ethanol.
Shipping
20% ethanol
Elution buffer
0.1 M sodium citrate, pH 3.0 to 3.6.
Cleaning-in-place
Precipitated or denatured substances: 1. Wash with 2 column volumes (CV) of 6 M guanidine hydrochloride, contact time at least 10 min. 2. Wash immediately with at least 5 CV filtered start buffer. or 1. Wash with 2 CV 50 mM NaOH of 1.0 M NaCl or 50 mM NaOH in 0.5 M Na2SO4 , contact time ~ 10 min. 2. Wash immediately with at least 5 CV filtered start buffer. Hydrophobically bound substances: 1. Wash with 2 CV 50 mM NaOH 1.0 M NaCl or 50 mM NaOH in 0.5 M Na2SO4 , contact time ~ 10 min. Wash with 2 CV nonionic detergent (e.g., conc. 0.1%), contact time ~ 10

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min. 2. Wash immediately with at least 5 CV start buffer. or 1. Wash with 3 to 4 CV 70% ethanol or 30% isopropanol, contact time ~ 10 min. Increasing gradients may be applied to avoid air bubble formation when using high concentrations of organic solvents. 2. Wash immediately with at least 5 CV start buffer.

Sanitization
1. Wash the column with 0.1 M acetic acid in 20% ethanol. 2. Leave the column in contact with the solution for 1 hour. 3. Wash with at least 5 CV sterile start buffer at pH 7 to 8. or 1. Wash the column with 70% ethanol. 2. Leave the column in contact with the solution for 12 hours. 3. Wash with at least 5 CV sterile start buffer at pH 7 to 8.
Pack size
1 × 4.7 mL
Maximum flow velocity
300 cm/h
Dimensions
7.7 × 100 mm
Column volume
4.7 ml
Column i.d.
7.7 mm
Column hardware pressure limit
0.8 MPa (8 bar)

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