

Q Sepharose Fast Flow

Product Information

Cat#No# Q -455C

Product Overview

Q Sepharose Fast Flow is a strong anion exchanger based on the well established Sepharose Fast Flow ion exchange platform, extensively used for preparative protein separations in both research and industrial applications.

Description

Q Sepharose Fast Flow is part of the Sepharose Fast Flow ion exchange platform, which has been the industrial standard for ion exchange chromatography during recent decades. It is composed of crosslinked 6% agarose beads, with quaternary ammonium (Q) strong anion exchange groups.

Characteristic

Well-proven strong anion exchanger developed for industrial downstream processes.
Used extensively for capture and intermediate purification of a wide range of approved biopharmaceuticals.
The industry standard for ion exchange chromatography during recent decades.
High chemical stability allows for well proven CIP and sanitization protocols.
The hydrophilic nature of the base matrix ensures low levels of non-specific binding leading to low levels of host cell-derived impurities in the elution pool.

Maximum operating pressure

400-700 cm/h, 100 kPa, XK 50/30 column

Metal ion capacity

0.18-0.24 mmol Cl-/ml medium

Matrix

cross-linked, 6% agarose particles

Ionic Exchanger Type

Strong anion exchanger

Average particle size

Q Sepharose Fast Flow

~90 µm

Ligand

Quaternary amine

Dynamic binding capacity

~ 42 mg BSA/mL resin

Recommended flow rate

400 to 700 cm/h

Recommended column height

15 cm

Chemical stability

Stable to commonly used aqueous buffers: 1.0 M NaOH, 8 M urea, 8 M guanidine hydrochloride, 70% ethanol.

pH working range

2–12

CIP stability

2–14

Storage

4 to 30°C, 20% Ethanol

Pack size

25 mL

BioProcess resin

Yes

Maximum flow velocity

700 cm/h

Q Sepharose Fast Flow

Functional group

-N⁺ (CH₃)₃
