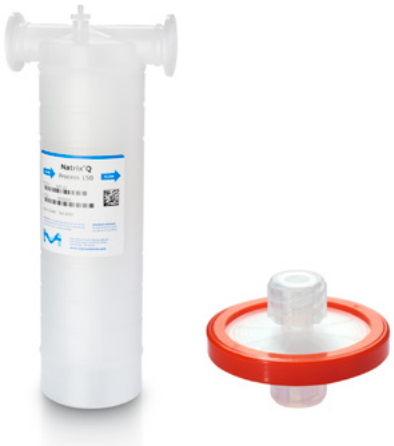
Millipore®
Preparation, Separation,
Filtration & Monitoring Products

Natrix® Q Chromatography Membrane



The Natrix® Q chromatography membrane platform (Micro and Process devices shown) offers scalable purification from R&D to clinical and commercial manufacturing.

With a revolutionary three-dimensional macroporous hydrogel structure that provides a high density of binding sites and rapid mass transfer, Natrix® membranes deliver binding capacity that exceeds resin-based columns with fast flow rates. This combination of performance and speed enables scalable solutions for efficient purification of biologics.

3 Reasons to Choose Natrix® Q Chromatography Membrane

1. **Effective Impurity Clearance**
   Excellent Host Cell Proteins (HCP), DNA, endotoxin and virus clearance, even with the most challenging process streams.

2. **Superior Operating Flexibility**
   High performance over a wide range of conductivity and pH using common anion exchange buffers – even phosphate, known to be challenging for anion exchange chromatography media.

3. **Simple and Cost-Effective Operation**
   “Plug-and-flow”, compatible with existing chromatography systems and with reduced labor cost, foot print, and buffer usage.

3 Steps for Success with Natrix® Q Chromatography Membrane

1. Start screening the buffer conditions and optimizing the load parameters using the Natrix® Q Micro device. These conditions are essential to achieve optimal purification performance.

2. Choose a product that accommodates the specific volume and capacity required using the Product Selection Table (on the reverse side).

3. Purify your protein with the speed, high-performance, and simplicity of Natrix® Q chromatography membrane.

The process conditions for a specific antibody (or other biologics) are dependent on the optimum parameters that need to be defined. To determine performance and the correct size device, please refer to the Natrix® Q chromatography membrane performance guide and Natrix® Q chromatography membrane application note.

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Natrix® Q Chromatography Membrane Selection Guide

Device format	Intended use	Flow rate range [2]	mAb nominal polishing capacity (g)[1]	Total BSA binding capacity (g)	Membrane bed thickness (mm)	Membrane configuration	Nominal membrane volume (mL)	Qty/Pk	Catalogue No.
Natrix® Q Micro	Scaled down laboratory model to screen and fine-tune parameters.	1 - 5 mL/min	2	0.04	0.5	Flat sheet	0.2	10	**NXF-00**
Natrix® Q Pilot	Intermediate scale adsorbers, intended to verify and adjust operating parameters. Pilot may be used for small-scale clinical and commercial manufacturing.	75 - 375 mL/min	150	3		Pleated	15	1	**NXF-10**
Natrix® Q Process 150	Process scale adsorber designed for full-scale clinical and commercial manufacturing of proteins.	0.6 - 3 L/min	1150	23			115	1	**NXF-20**
Natrix® Q Process 600		2.3 - 11.5 L/min	4600	92			460	1	**NXF-50**

[1] Based on typical process streams and loading up to 10 kg mAb/L-membrane. Loading capacity is not limited to 10 kg/L and depends on the total impurity content.

[2] Typical flow rate range is based on 5-25 membrane volumes/minute. Specific flow rates can be determined to accommodate process requirements (e.g. maximum back pressure, improved process time, etc.).

For additional information

please visit **MerckMillipore.com**

To place an order or receive technical assistance

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