

# 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.

## Matrx® Q Chromatography Membrane Selection Guide

Device format	Intended use	Flow rate range <sup>2</sup>	mAb nominal polishing capacity (g) <sup>1</sup>	Total BSA binding capacity (g)	Membrane bed thickness (mm)	Membrane configuration	Nominal membrane volume (mL)	Qty/Pk	Catalogue No.
<b>Matrx® Q Micro</b>	Scaled down laboratory model to screen and fine-tune parameters.	1 - 5 mL/min	2	0.04	0.5	Flat sheet	0.2	10	<b>NXF-00</b>
<b>Matrx® Q Pilot</b>	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	<b>NXF-10</b>
<b>Matrx® Q Process 150</b>	Process scale adsorber designed for full-scale clinical and commercial manufacturing of proteins.	0.6 - 3 L/min	1150	23			115	1	<b>NXF-20</b>
<b>Matrx® Q Process 600</b>		2.3 - 11.5 L/min	4600	92			460	1	<b>NXF-50</b>

<sup>1</sup> 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.

<sup>2</sup> 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 [EMDmillipore.com](https://www.emdmillipore.com)

### To place an order or receive technical assistance

please visit [EMDmillipore.com/contactPS](https://www.emdmillipore.com/contactPS)

© 2022 Merck KGaA, Darmstadt, Germany, and/or its affiliates. All Rights Reserved.

MilliporeSigma, Millipore, Matrx and the vibrant M are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.

Lit. No. MS\_PG1939EN Ver. 3.0 08/2022

