Natrix™

QUICK SELECTION GUIDE:

NatriFlo™ HD-Q Membrane Adsorbers

With a revolutionary three-dimensional macroporous hydrogel structure that provides a High Density of binding sites and rapid mass transfer, Natrix HD Membranes deliver binding capacity that exceeds resin-based columns with fast flow rates typical of membrane adsorbers. When packed into the NatriFlo HD-Q Membrane Adsorbers, this combination of performance and speed enables low risk, scalable polishing solutions for efficient purification of biologics.

3 Reasons To Choose NatriFlo HD-Q

Reason 1. High-Capacity Protein Purification
NatriFlo HD-Q Adsorbers generate the best-in-class HCP, DNA, endotoxin and virus clearance, even with the most challenging process streams.

Reason 2. Superior Operating Flexibility
NatriFlo HD-Q Adsorbers maintain high performance over a wide range of conductivity and pH using common anion exchange buffers – even phosphate, known to be challenging for membrane adsorbers.

Reason 3. Simple and Cost-Effective Operation
NatriFlo HD-Q Adsorbers are "plug-and-flow", work with existing chromatography systems and reduce labor cost, foot print, and buffer use.

*Download the **NatriFlo HD-Q Data File** for detailed performance information generated by some of the world's top chromatographers.* www.natrixseparations.com/proof

3 Steps for Success with NatriFlo HD-Q

STEP 1: Start screening the buffer conditions and optimizing the load parameters using the Recon family. These conditions are essential to achieve targeted purification performance.

STEP 2: Choose a product that accommodates the specific volume and capacity required using the Product Selection Table.

STEP 3: Experience the speed, high performance, and simplicity of NatriFlo HD-Q.

The process conditions for a specific antibody (or other biologic) are dependent on the optimum parameters that need to be defined. To determine performance and the correct size device, please refer to NatriFlo HD-Q data file and NatriFlo HD-Q method development guide.

Product Selection Table

Product Name	Recon Mini	Recon	Pilot	Process 150	Process 300	Process 450	Process 600
Product number	NXF-01	NXF-02	NXF-10	NXF-20	NXF-30	NXF-40	NXF-50
Quantity/ pack	10	5	1	1	1	1	1
Nominal Membrane volume (mL) [1]	0.2	0.8	15	115	230	345	460
Membrane Configuration	Flat sheet		Pleated				
Membrane bed thickness (mm)	0.5						
Total BSA binding capacity (g)	0.04	0.16	3	23	46	69	92
mAb nominal polishing capacity (g) [2]	2	8	150	1150	2300	3450	4600
Flow rate range [3]	1 - 5 mL/min	4 - 20 mL/min	75 - 375 mL/min	0.6 - 3 L/min	1 - 6 L/min	1.5 - 8.5 L/min	2 - 10 L/min
Intended use	Scaled down laboratory model to screen and fine-tune parameters.	Intermediate scale adsorbers, intended to verify and adjust operating parameters. Pilot may be used for small-scale GMP manufacturing.		Process scale adsorber designed for full-scale GMP manufacturing of proteins.			

[1] *Contact Natrix Separations if larger HD-Q membrane volumes are required to meet specific manufacturing needs.*

[2] *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.*

[3] *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.).*