



Acrodisc® Unit with Mustang® Q Membrane



- For laboratory use.
- Chromatography unit is a strong anion exchanger that is capable of binding DNA, proteins, and other negatively-charged biomolecules.
- Ideal for evaluation, process development, and validation.
- Scaleable to Mustang Q capsules.

Certification

Pall Life Sciences certifies that the enclosed disposable units are:

1. Non-pyrogenic and non-cytotoxic after preconditioning.
2. Materials of construction pass USP Class VI – 72 °C Plastics tests after preconditioning.
3. Manufactured in accordance with 21 CFR Part 820, Quality System Requirements.
4. In compliance with published product specifications.

Leslie A. Harrel, Sr. Director, Quality Assurance

The certificate of compliance provided does not apply to products that have been opened or damaged by conditions outside the control of Pall Life Sciences.

Ordering Information

Prod. No.	Description	Packaging
MSTG25Q6	Acrodisc Unit with Mustang Q Membrane, 0.8 µm, 25 mm	10/pkg

Specifications

Materials of Construction

Housing: Polypropylene
Media: Mustang Q membrane, 0.8 µm
Connections: Female Luer-Lok® inlet, male slip luer outlet

Membrane Bed Volume

~ 0.18 mL

Differential Pressure

< 1 psi at 1 mL/min

Typical Operating Temperature

21 - 24 °C (70 - 75 °F)

Maximum Operating Pressure

5.5 bar (80 psi)

Mean Dynamic Binding Capacity*

DNA ~ 3.6 mg/Acrodisc unit or ~ 20 mg/mL membrane volume
BSA ~ 10 mg/Acrodisc unit or ~ 56 mg/mL membrane volume

*Note on Optimization:

The yield is contingent on type of DNA, size and copy number of plasmid, concentration of protein, ionic strength and pH of buffer.

Instructions for Use

1. Connect tubing or syringe to the inlet, and tubing to the outlet. Run buffer and check for leaks.
2. Recommended sample loading flow rate for Acrodisc® Unit with Mustang™ Q Membrane is 1 to 4 mL/min.
3. The Acrodisc unit must be preconditioned with 4 mL of 1M NaOH, 4 mL of 1M NaCl, and equilibrated with 10 mL of appropriate buffer before sample loading.
4. The Acrodisc unit is meant for a single use.

For further information, please contact:

Pall's Mustang Technical Support at 800-717-7255 (in USA)

+ Lab Tech Support at 800-521-1520

(Fax: 516-801-9548 or E-mail: biotech@pall.com)

Performance

The following graphs demonstrate the high resolution and dynamic binding capacity of the Acrodisc Unit with Mustang Q Membrane.

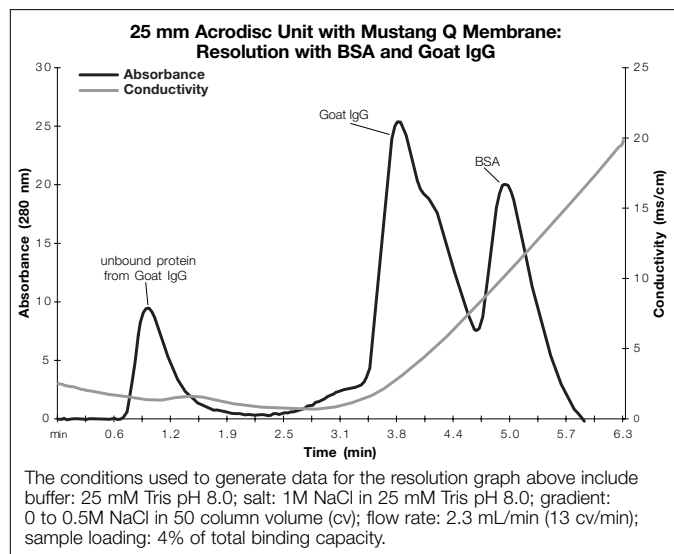


Figure 1

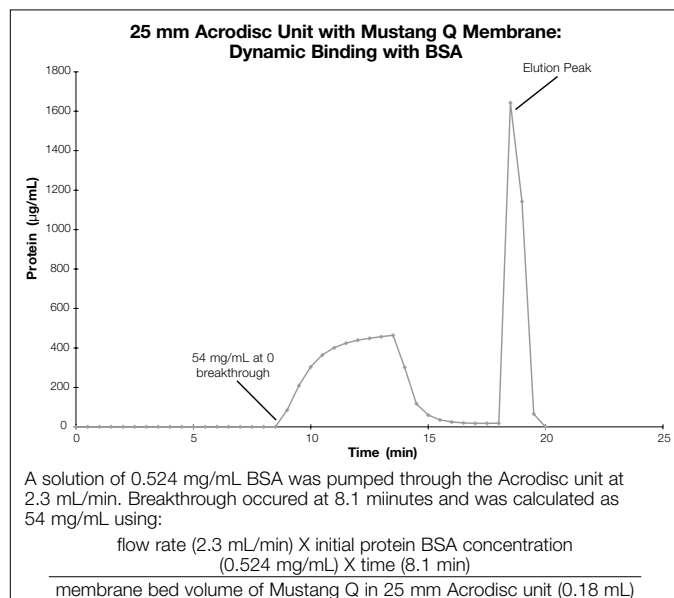


Figure 2



Complementary Products

Other scaleable larger-scale products with Mustang® Q membrane:

Prod. No.	Description	Packaging
MSTG18Q16	Mustang Q Coin, with Mustang Q membrane 0.8 µm, 0.35 mL	10/pkg
CLM05MSTGQP1	Mustang Q Capsule, with Mustang Q membrane 0.8 µm, 10 mL	1/pkg
CL3MSTGQP1	Mustang Q Capsule, with Mustang Q membrane 0.8 µm, 60 mL	1/pkg
NP6MSTGQP1	Mustang Q Capsule, with Mustang Q membrane 0.8 µm, 260 mL	1/pkg
NP7MSTGQP1	Mustang Q Capsule, with Mustang Q membrane 0.8 µm, 520 mL	1/pkg
NP8MSTGQP1	Mustang Q Capsule, with Mustang Q membrane 0.8 µm, 780 mL	1/pkg

Mustang Technology Literature Available

Part No.	Literature	Title
USD 2185	Brochure	Pall Mustang® Q Capsules The High Throughput Disposable Capsules for Process Scale Anion Exchange Chromatography
USD 2186	Brochure	Pall Mustang® S Capsules The High Throughput Disposable Capsules for Process Scale Cation Exchange Chromatography
USD 2275	Application Note	Purification of Adeno-Associated Viral Vectors Using Mustang® Membrane Chromatography
USD 2278	Application Note	DNA Clearance From Antibody Preparations Using Mustang® Q Membrane-Model Study
USD 2280	Brochure	Pall Mustang® E Capsules The High Throughput Disposable Capsules for Endotoxin Removal from Buffers, Water, Saline and Process Streams

WARNING

Employment of the products in applications not specified, or failure to follow all instructions contained in this product information insert, may result in improper functioning of the product, personal injury, or damage to property or the product. See Statement of Warranty in our most recent catalog.

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