



## Acrodisc® Unit with Mustang® E Membrane



- For laboratory use.
- Capable of removing endotoxin from water, buffers, 1 M NaCl, neutral sugars and certain biological solutions.
- 500,000 EU/Acrodisc unit at flow rates of 1 - 4 mL/minute.
- Ideal for evaluation, process development, and validation.

### Certification

Pall Life Sciences certifies that the enclosed disposable units are:

1. Sterile, gamma irradiated to a minimum 25 kilogray.
2. Non-pyrogenic, < 0.25 EU/mL using Limulus Amoebocyte Lysate (LAL) test methodology.
3. Materials of construction pass USP Class VI – 121 °C Plastics and Cytotoxicity tests.
4. Manufactured in accordance with 21 CFR Part 820, Quality System Requirements.
5. In compliance with published product specifications.

Leslie A. Harreld, 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
MSTG25E3	Acrodisc Unit with Mustang E Membrane, 0.2 µm, 25 mm, sterile	10/pkg

### Specifications

#### Materials of Construction

Housing: Polypropylene  
Media: Mustang E Membrane, 0.2 µm  
Connections: Female Luer-Lok® inlet, male slip luer outlet

#### Membrane Bed Volume

~ 0.12 mL

#### Typical Differential Pressure

< 1 psi at 1 mL/min

#### Maximum Operating Pressure and Temperature

5.5 bar (80 psi) at 21 to 24 °C (70 to 75 °F)  
2.1 bar (30 psi) at 60 °C (140 °F)

#### Typical Endotoxin Removal Capacity†

500,000 EU/Acrodisc unit under the following conditions: 0.9% Sodium Chloride  
Minimum challenge level: 10,000 EU/mL  
Minimum challenge volume: 60 mL  
Endotoxin source: *Escherichia coli* strain 055:B5 (no dispersing agents)

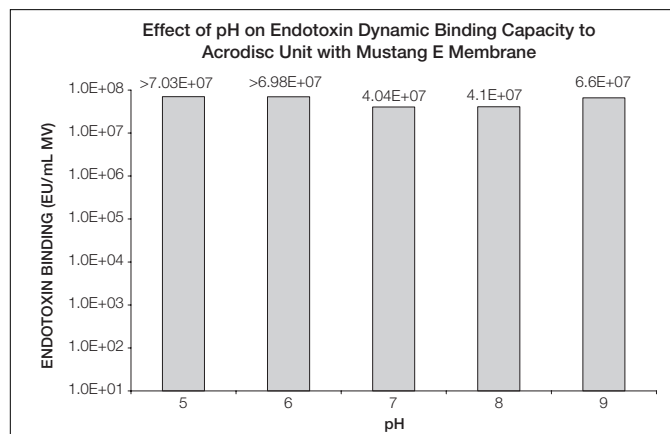
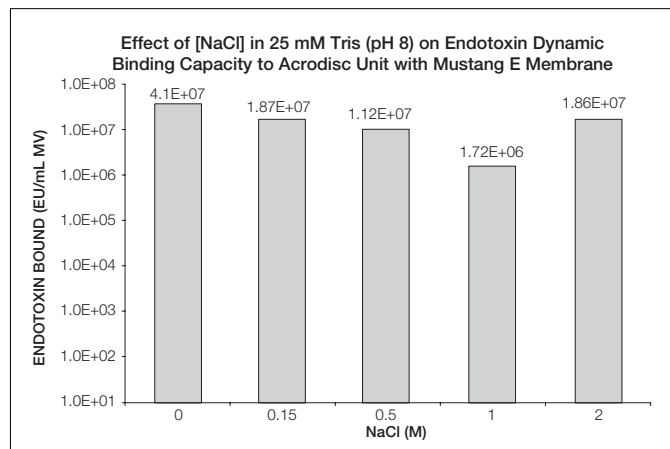
#### \*Note on Optimization:

Endotoxin removal capacity may be impacted by flow rate, protein surface charge, type and concentration of protein, pH, conductivity or other components of the sample solution such as surfactants and glycols. Validation is recommended for each application to determine endotoxin removal capacity. Please contact Technical Support if further optimization of processing conditions become necessary.

### Performance

The following graphs demonstrate the high dynamic binding capacity of the Acrodisc Unit with Mustang E Membrane with various concentrations of sodium chloride over a wide pH range.

#### Salt Concentration and pH Range



### Instructions for Use

Sanitization is not necessary for the product, but if required by your protocol, the product is stable with 1 N NaOH.

1. Determine particulate load of sample. Premature plugging is possible due to heavy particulate. Prefiltration of samples and buffers is recommended.
2. Aseptically connect the Acrodisc unit to a pumping system or syringe.
3. In order to optimize endotoxin removal capacity, pass at least 1 mL of pyrogen-free water or buffer through each unit using a flow rate of 1 – 4 mL/min.
4. Pass your sample through the Acrodisc unit. Collection of multiple fractions is advised for development work.
5. Dispose of Acrodisc unit after a single use.

For further information, please contact:

**Pall's Mustang Technical Support at 800-717-7255 (in USA)**  
**+ LabTech Support at 800-521-1520**  
**(Fax: 516-801-9548 or E-mail: biotech@pall.com)**

**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.

**ATTENTION**

L'utilisation de nos produits dans des applications pour lesquelles ils ne sont pas spécifiés ou le non-respect du mode d'emploi qui figure sur ce document, peut entraîner un dysfonctionnement du produit, endommager le produit ou d'autres biens matériels ou représenter un risque pour l'utilisateur. Se référer à la clause de garantie de notre catalogue le plus récent.

**ACHTUNG**

Der Einsatz dieses Produktes in Anwendungen für die es nicht spezifiziert ist, oder das Nichtbeachten einiger, in dieser Bedienungsanleitung gegebenen Hinweise kann zu einem schlechteren Ergebnis, oder Zerstörung des Produktes oder anderer Dinge oder gar zu Verletzungen führen. Beachten Sie auch unsere Garantiebedingungen im aktuellen Katalog.

**ADVERTENCIA**

El uso de este producto en aplicaciones no especificadas o el no considerar las instrucciones indicadas en la hoja de información del producto puede ocasionar un mal funcionamiento del producto, daños en las instalaciones o en el producto y riesgo para el personal del laboratorio. Consulte el apartado de Garantía en nuestro último catálogo.

**ATTENZIONE**

L'impiego dei prodotti in applicazioni non specificate, o il mancato rispetto di tutte le istruzioni contenute nel presente bollettino tecnico, potrebbero portare ad un utilizzo improprio del prodotto, ferire gli operatori, o danneggiare le caratteristiche del prodotto stesso. Consultare la dichiarazione di garanzia pubblicata nel nostro più recente catalogo.

**警告**

当製品情報に記載されていないアプリケーションにおいて製品を使用した場合、あるいは当製品情報に記載されている使用方法に従わない場合は、製品の機能上の不具合、人体への危害、あるいはお客様の財産や製品への損害をまねく恐れがあります。必ず、最新のカatalogに記載してある保証約款をご覧ください。

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