



Acrodisc® Units with Mustang® E Membrane

Description

Remove Endotoxin from Water, Buffer, Neutral Sugars, and Certain Biological Solutions

- ▶ Ideal for evaluation and proof of concept
- ▶ High flow rates of 1 to 4 mL/min or 10 to 35 membrane volume (MV)/minute
- ▶ Disposable 25 mm units are designed for laboratory single use only



Application

- ▶ Reduction of endotoxins in water, buffer, neutral sugars, and certain biological solutions

Specifications

Materials of Construction

- ▶ Filter Media: Mustang E membrane
- ▶ Housing: Polypropylene

Pore Size

- ▶ 0.2 μ m

Inlet/Outlet Connections

- ▶ Female luer lock inlet, male slip luer outlet

Membrane Bed Volume

- ▶ 0.12 mL

Maximum Operating Temperature and Pressure

- ▶ 2.1 bar (210 kPa, 30 psi) at 60 °C (140 °F) or 5.5 bar (550 kPa, 80 psi) at 21 - 24 °C (70 - 75 °F)

Typical Differential Pressure

- ▶ < 0.07 bar (7 kPa, 1 psi) @ 1 mL/min

Mean Flow Rate

- ▶ 1 - 4 mL/min; flow rate will vary with type of solutions, concentration of proteins, and other components

Typical Endotoxin Removal Capacity

- ▶ 500,000 EU/Acrodisc unit from saline 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: The endotoxin removal capacity may vary by flow rate, protein surface charge, type and concentration of protein, pH, salt concentration, or other components of the sample solution such as surfactants and glycols.

Biological Safety

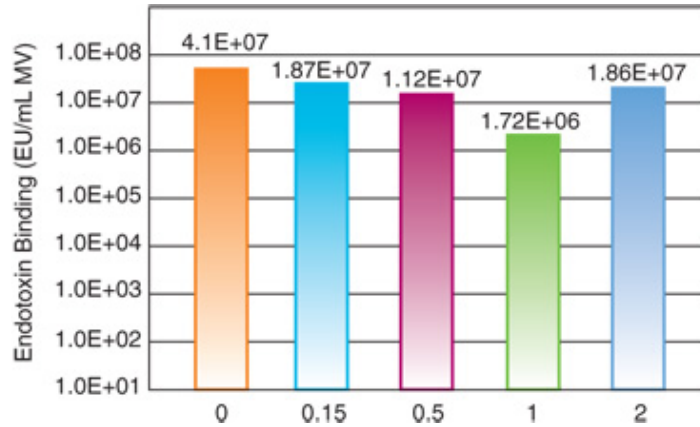
- ▶ Passes United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88>

Sterilization

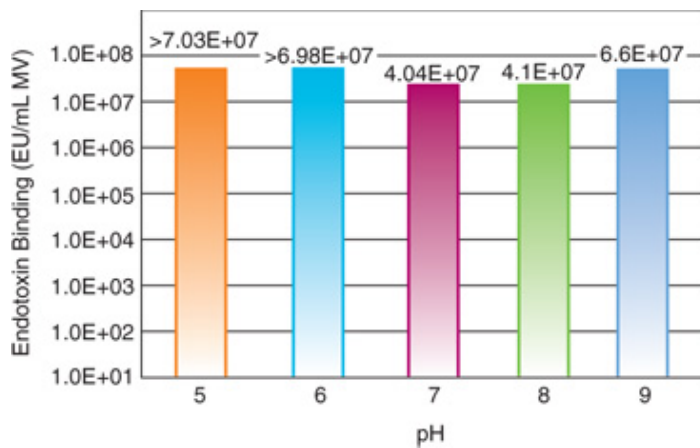
- ▶ Sterilized by gamma irradiation and individually packaged.

Performance

Effect of NaCl Concentration in 25mM Tris (pH 8) on Endotoxin Dynamic Binding Capacity to Acrodisc Unit With Mustang E Membrane



Effect of pH on Endotoxin Dynamic Binding Capacity to Acrodisc Unit With Mustang E Membrane



Ordering Information

Part Number	Description	Pkg	Price	Qty
Acrodisc Unit with Mustang E Membrane				
MSTG25E3	0.2 µm, 25 mm, sterile	10/pkg (blister packs)	NA	<input type="text" value="0"/>
MSTG25KIT	Kit includes: (4) Acrodisc unit with Mustang Q membrane (non-sterile); (4) Acrodisc unit with Mustang S membrane (non-sterile); (2) Acrodisc unit with Mustang E membrane (sterile)	10/pkg	NA	<input type="text" value="0"/>

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