



Acrodisc® Syringe Filters with Supor® Membrane

Description

High Flow Rates with Low Protein Binding

- ▶ Superior flow rates and higher throughputs than competitive devices.
- ▶ Low protein binding to minimize sample loss.
- ▶ Pre-sterilized products are sterilized by gamma irradiation to eliminate potential contamination by EtO residuals.
- ▶ A range of sizes (13 to 37 mm) accommodates sample volumes from < 10 to 150 mL.
- ▶ Acrodisc PF and Serum Acrodisc syringe filters feature built-in prefilter for increased throughput of difficult-to-filter liquids.
- ▶ Reduces mycoplasma with the use of 0.1 µm pore size.



Application

- ▶ 0.1 and 0.2 µm pore sizes provide sterilization of small volumes of buffers, culture media, and additives.
- ▶ Acrodisc PF and Serum Acrodisc syringe filters are ideal for clarification/sterilization of viscous or particulate-laden solutions.
- ▶ Use larger pore size filters for prefiltration and particulate removal.

Specifications

Materials of Construction

Filter Media: Supor membrane [hydrophilic polyethersulfone (PES)]

Serum Acrodisc Prefilter Media: Binder-free borosilicate glass

Acrodisc Housing:

13 mm: Polypropylene

25 and 32 mm: Modified acrylic

37 mm: Polypropylene

Serum Acrodisc Housing: ABS

Pore Size

0.1, 0.2, 0.45, 0.8, 1.2, and 5 µm

Effective Filtration Area

13 mm: 1.0 cm²

25 mm: 2.8 cm²

32 mm: 5.8 cm²

37 mm: 7.5 cm²

Inlet/Outlet Connections

Female luer lock inlet, male slip luer outlet

Typical Hold-Up Volume

(with air purge)

13 mm: ≤ 28 µL

25 mm: ≤ 70 µL

32 and 37 mm: ≤ 100 µL

Maximum Operating Temperature

55 °C (131 °F)

Maximum Operating Pressure

5.2 bar (520 kPa, 75 psi)

Typical Water Flow Rate

mL/min at 3.1 bar (310 kPa, 45 psi)

0.1 μm , 25 mm: 35
0.1 μm , 32 mm: 100
0.2 μm , 13 mm: 22
0.2 μm , 25 mm: 175
0.2 μm , 32 mm: 490
0.45 μm , 13 mm: 35
0.45 μm , 25 mm: 300
0.45 μm , 32 mm: 700
0.8 μm , 13 mm: 150
0.8 μm , 25 mm: 700
0.8/0.2 μm , 25 mm: 145
0.8/0.2 μm , 32 mm: 440
1.2 μm , 32 mm: 1700
5 μm , 32 mm: 1750
GF/0.2 μm , 37 mm (Serum
Acrodisc Filter): 425

Endotoxin Level

< 0.25 EU/mL using Limulus Amoebocyte Lysate (LAL) test

Biological Safety

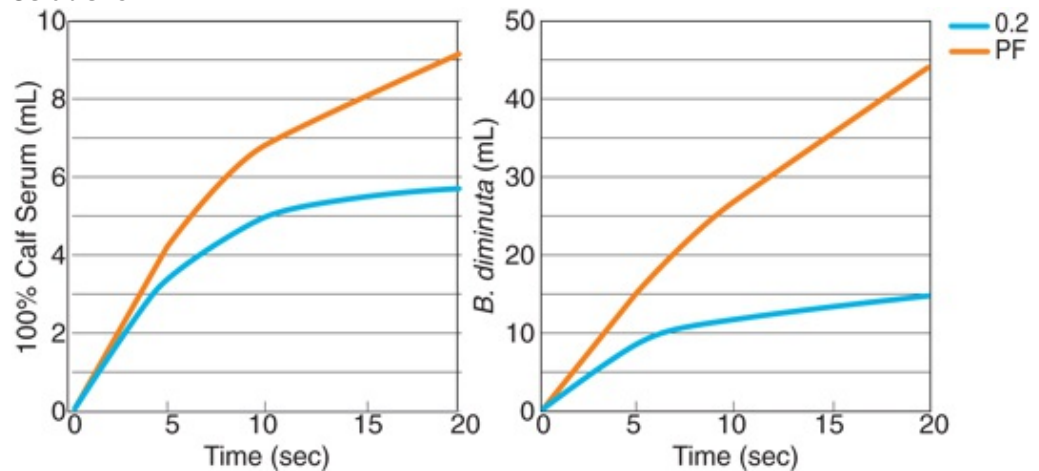
Passes United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88>

Sterilization

Sterilized by gamma irradiation and individually blister packaged. All bulk packages provided non-sterile including PN 4504, 4506, 4508, 4509, 4655, 4653, 4659, 4660, 4661, 4662, 4668, and 4692.

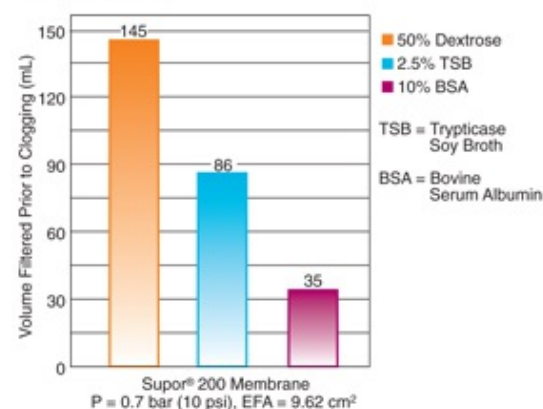
Performance

Built-In Prefilter Enhances Throughput of Viscous, Particulate-Laden, or Proteinaceous Solutions

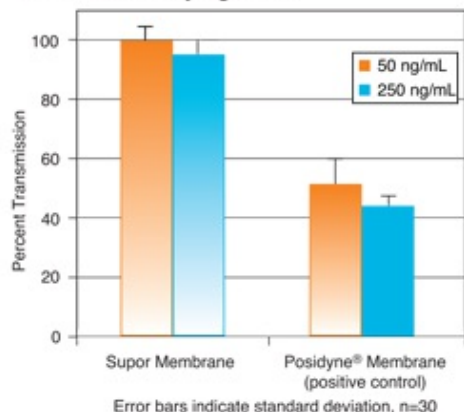


Acrodisc and Acrodisc PF syringe filters with 0.2 μm Supor membrane were challenged with bovine serum or a bacterial culture (107 cfu/mL) at a constant pressure of 1.4 bar (140 kPa, 20 psi).

Membrane Filtration Throughput 0.2 μm Rated Membranes



¹²⁵I BSA Protein Transmission Through 25 mm Acrodisc® Syringe Filters



Related Products

- ▶ [AcroCap Positive Pressure Devices](#)
- ▶ [AcroPak 20 Filters with with Supor Membrane](#)
- ▶ [AcroPak 200 Capsules with Supor Membrane](#)
- ▶ [AcroPak 500, 1000, and 1500 Capsules with Supor Membrane](#)
- ▶ [Supor Membrane Disc Filters](#)
- ▶ [VacuCap Vacuum Filtration Devices](#)

Ordering Information

| Part Number | Description | Pkg | Price | Qty |
|---|-------------------|----------|-------|--------------------------------|
| Acrodisc Syringe Filters with Supor Membrane, Sterile | | | | |
| 4602 | 0.2 µm, 13 mm | 75/pkg | NA | <input type="text" value="0"/> |
| 4604 | 0.45 µm, 13 mm | 75/pkg | NA | <input type="text" value="0"/> |
| 4608 | 0.8 µm, 13 mm | 75/pkg | NA | <input type="text" value="0"/> |
| 4611 | 0.1 µm, 25 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4612 | 0.2 µm, 25 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4614 | 0.45 µm, 25 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4618 | 0.8 µm, 25 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4651 | 0.1 µm, 32 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4652 | 0.2 µm, 32 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4654 | 0.45 µm, 32 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4656 | 1.2 µm, 32 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4650 | 5 µm, 32 mm | 50/pkg | NA | <input type="text" value="0"/> |
| Acrodisc PF Syringe Filters with Supor Membrane, Sterile | | | | |
| 4187 | 0.8/0.2 µm, 25 mm | 50/pkg | NA | <input type="text" value="0"/> |
| 4658 | 0.8/0.2 µm, 32 mm | 50/pkg | NA | <input type="text" value="0"/> |
| Serum Acrodisc Syringe Filter with Supor Membrane, Sterile | | | | |
| 4525 | GF/0.2 µm, 37 mm | 20/pkg | NA | <input type="text" value="0"/> |
| Acrodisc Syringe Filters with Supor Membrane, Non-Sterile Bulk Packaging | | | | |
| 4692 | 0.2 µm, 13 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4668 | 0.1 µm, 25 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4506 | 0.2 µm, 25 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4504 | 0.8/0.2 µm, 25 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4508 | 0.45 µm, 25 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4509 | 0.8 µm, 25 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4655 | 0.2 µm, 32 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4659 | 0.8/0.2 µm, 32 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4653 | 0.45 µm, 32 mm | 1000/pkg | NA | <input type="text" value="0"/> |

| | | | | |
|------|--------------------------------|----------|----|--------------------------------|
| 4661 | 1.2/0.45 μm , 32 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4660 | 1.2 μm , 32 mm | 1000/pkg | NA | <input type="text" value="0"/> |
| 4662 | 5 μm , 32 mm | 1000/pkg | NA | <input type="text" value="0"/> |

Contact Information

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