

Acrodisc® Syringe Filters With Supor® Membrane

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.

Applications

- ▶ 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

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

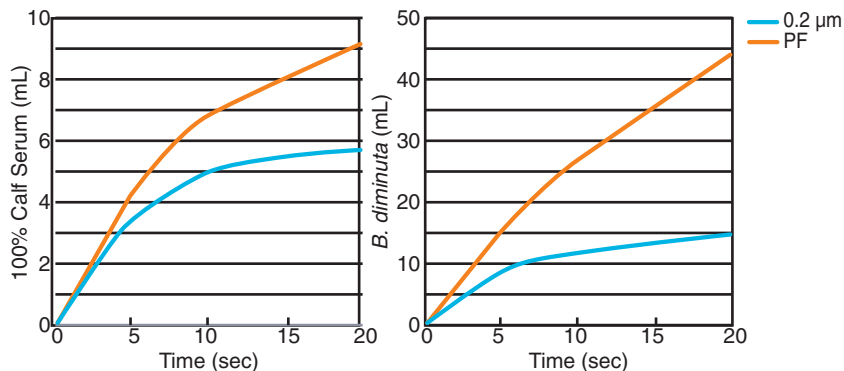
Passes United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88>

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

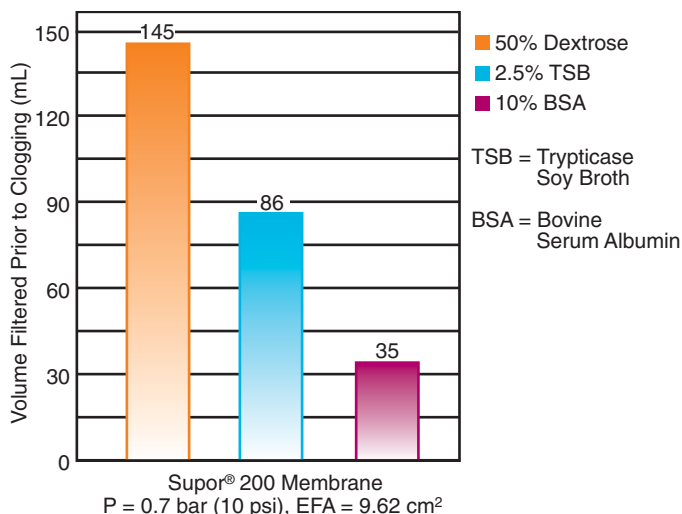
Built-In Prefilter Enhances Throughput of Viscous, Particulate-Laden, or Proteinaceous Solutions



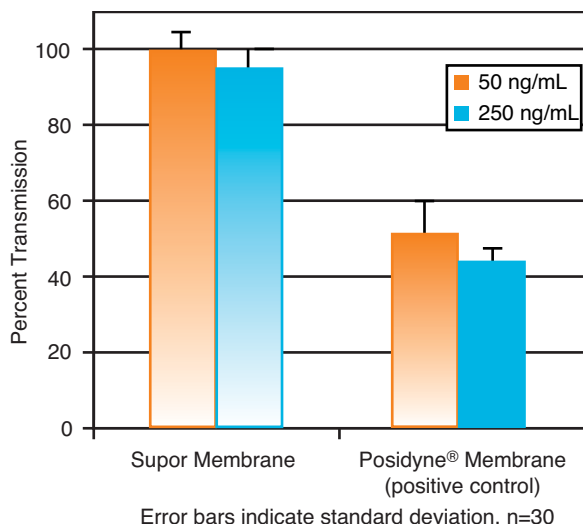
Acrodisc and Acrodisc PF syringe filters with 0.2 µm Supor membrane were challenged with bovine serum or a bacterial culture (10⁷ cfu/mL) at a constant pressure of 1.4 bar (140 kPa, 20 psi).

Performance (continued)

Membrane Filtration Throughput 0.2 µm Rated Membranes



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



Ordering Information

Acrodisc Syringe Filters With Supor Membrane, Sterile

Part Number	Description	Pkg
4602	0.2 µm, 13 mm	75/pkg
4604	0.45 µm, 13 mm	75/pkg
4608	0.8 µm, 13 mm	75/pkg
4611	0.1 µm, 25 mm	50/pkg
4612	0.2 µm, 25 mm	50/pkg
4614	0.45 µm, 25 mm	50/pkg
4618	0.8 µm, 25 mm	50/pkg
4651	0.1 µm, 32 mm	50/pkg
4652	0.2 µm, 32 mm	50/pkg
4654	0.45 µm, 32 mm	50/pkg
4656	1.2 µm, 32 mm	50/pkg
4650	5 µm, 32 mm	50/pkg

Acrodisc PF Syringe Filters With Supor Membrane, Sterile

Part Number	Description	Pkg
4187	0.8/0.2 µm, 25 mm	50/pkg
4658	0.8/0.2 µm, 32 mm	50/pkg

Related Products

AcroCap™ Positive Pressure Devices	124
AcroPak™ Capsules with Supor Membrane	129, 132, 137
Supor Membrane Disc Filters	111
VacuCap® Vacuum Filtration Devices	127

Serum Acrodisc Syringe Filter With Supor Membrane, Sterile

Part Number	Description	Pkg
4525	GF/0.2 µm, 37 mm	20/pkg

Acrodisc Syringe Filters With Supor Membrane, Non-Sterile Bulk Packaging

Part Number	Description	Pkg
4692	0.2 µm, 13 mm	1000/pkg
4668	0.1 µm, 25 mm	1000/pkg
4506	0.2 µm, 25 mm	1000/pkg
4504	0.8/0.2 µm, 25 mm	1000/pkg
4508	0.45 µm, 25 mm	1000/pkg
4509	0.8 µm, 25 mm	1000/pkg
4655	0.2 µm, 32 mm	1000/pkg
4659	0.8/0.2 µm, 32 mm	1000/pkg
4653	0.45 µm, 32 mm	1000/pkg
4661	1.2 µm/0.45 µm, 32 mm	1000/pkg
4660	1.2 µm, 32 mm	1000/pkg
4662	5 µm, 32 mm	1000/pkg