AcroPak™

PRODUCT FAMILY

The AcroPak™ product family of filters and capsules are designed for efficient, cost-effective filtration and high throughput of liquid volumes up to 150 L.

AcroPak 20 filters with hydrophilic sterilizing membranes are ideal for scale-up purposes. These filters are designed to add convenience when processing small volumes of chemical and biological fluids of up to 5 L. AcroPak 20 filters are available sterile and non-sterile with different membrane choices for a broad range of chemical compatibility.

- Supor™ membrane has high flow rates and throughputs, and is ideal for solutions where low protein binding is required. Not recommended for use with some ketones.
- Fluorodyne™ II membrane provides compatibility with aqueous and many organic solvents. Not recommended for use with some ethers.

Features and benefits

- Capsules provide higher throughputs and faster flow raters than similar-size competitive devices.
- Low protein binding to minimize sample loss.
- Fusion-welded components eliminate the potential for release of extractables from sealing adhesives.
- Upstream air vent prevents vapor lock.

Applications

- Sterile filtration of supplemented culture media and other difficult-to-filter liquids, buffers, water, and chemicals.
- Designed to add convenience to small and mid volume filtrations.
- Ideal for scale-up.



Fig 1. AcroPak filter capsules.

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AcroPak capsules with Supor membrane

AcroPak capsules with Supor membrane quickly process difficult-to-filter solutions, such as serum supplemented culture media, and viscous or particulate-laden solutions. Supor membrane has very low flow rates and consistently higher total solution throughputs because it has a higher porosity than most other membranes. Capsules with Supor membrane are ideal in situations where rapid filtration or short processing times are essential, or where low protein binding is required.

Features and benefits

- Exhibit very high flow rates.
- Ideal for solutions where low protein biding is required.
- Save money by increasing throughput with available built in prefilter.
- Built-in prefilter extends filter life when viscous or particulate laden solutions, such as serum-containing media, are processed.
- Use AcroPak capsules with double layer 0.1 µm membrane to ensure sterile, mycoplasma free cell culture media.

Applications

- Sterile filtration of media, buffers, and biological solutions
- Point-of-use filtration for laboratory water
- Small, medium, and large volume media preparation
- Pilot scale manufacturing
- Liquids requiring prefiltration, such as serum-containing media

Performance

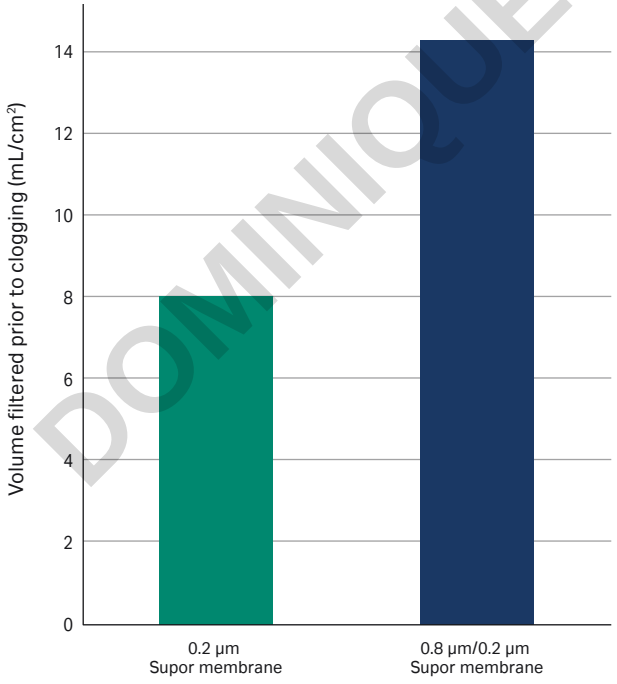


Fig 2. Built-in prefilter enhances liquid throughput. Membrane type: 4 mm disc; throughput determined using 2.5% TSB.

AcroPak capsules with Fluorodyne II membrane

AcroPak capsules with Fluorodyne II membrane feature high flow rates, low adsorptive properties, and low extractables. Fluorodyne II membrane is ideal for scale-up and downstream processing applications for biopharmaceutical production, and is suitable for applications where customer protocol requires polyvinylidene fluoride (PVDF) membrane. The double layer sterilizing membrane assures enhanced performance.

Features and benefits

- Designed for scale-up and downstream processing applications
- Provides compatibility with aqueous and many organic solvents
- Use for high flow rates and low protein and preservative binding

Applications

- Designed for scale-up and downstream processing applications
- Suitable for use with fluids containing dilute proteins, preservatives, or other critical components
- Suited for biological and sterilizing filtration requirements

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AcroPak 20 filters

WITH HYDROPHILIC STERILIZING MEMBRANE

Technical specifications

Materials of construction

Filter media:	
Fluordyne II membrane	Hydrophilic PVDF
Supor membrane	Hydrophilic polyethersulfone
Housing, vent plug, and support material	Polypropylene (PP)
Sealing technology	Thermal bonding
Filling bell	Polycarbonate

Nominal dimensions

Pore size:	
Fluorodyne II membrane	0.1 and 0.2 µm
Supor membrane	0.8/0.2 µm
Effective filtration area	20 cm^2
Housing diameter	6.7 cm (2.7 in.)
Housing length	8.3 cm (3.3 in.)

Inlet/outlet connections

6.4–12.7 mm (¼–½ in.) diameter stepped hose barb with female luer slip interior and filling bell on outlet

Typical hold-up volume

≤ 2.5 mL

Operating conditions

Maximum operating temperature and pressure	60°C at 1.0 bar (15 psi) 4.1 bar (60 psi) at ambient temperature

Minimum bubble point (water)

Fluorodyne II membrane (0.2 µm)	3.2 bar (46 psi)
Supor membrane	3.5 bar (51 psi)

Minimum bubble point (60% IPA/40% H2O [v:v])

Fluorodyne II membrane (0.1 µm)	1.8 bar (26 psi)

Typical water flow rate (mL/min at 0.1 bar)

Fluorodyne II membrane, 0.1 µm	13
Fluorodyne II membrane, 0.2 µm	26
Supor membrane	40

Bacterial retention

Lot samples retain a minimum of 10^7 cfu/cm^2 of *Brevundimonas diminuta* per modified ASTM F838-83

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 or non-sterile
If desired, autoclave once prior to use at 131°C for 30 minutes

Ordering information

AcroPak 20 filters with filling bell

Membrane	µm	Sterilization	Product code
Fluorodyne II membrane	0.1	Sterile	12209
		Non-sterile	12208
	0.2	Sterile	12201
		Non-sterile	12200
Supor membrane	0.8/0.2	Sterile	12203
		Non-sterile	12202

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AcroPak 200 sterile capsules

WITH FLUORODYNE II AND SUPOR MEMBRANES

Technical specifications

Materials of construction

Filter media:	
Fluordyne II membrane	Hydrophilic PVDF
Supor membrane	Hydrophilic polyethersulfone
Housing, vent plug, and support material	PP
Sealing technology	Thermal bonding
Filling bell	Polycarbonate

Nominal dimensions

Pore size:	
Fluorodyne II membrane	0.2 µm
Supor membrane	0.8/0.2 µm
Effective filtration area	200 cm^2
Housing diameter with vent	6.7 cm (2.6 in.)
Housing diameter without vent	5.3 cm (2.1 in.)
Housing length	10.5 cm (4.1 in.)

Inlet/outlet connections

6.4–12.7 mm (¼–½ in.) diameter stepped hose barb with filling bell on outlet

Typical hold-up volume

≤ 6 mL

Operating conditions

Maximum operating temperature and pressure	60°C at 2.1 bar (30 psi) 4.1 bar (60 psi) at ambient temperature

Minimum bubble point (water)

Fluorodyne II membrane	3.2 bar (46 psi)
Supor membrane	3.5 bar (51 psi)

Typical water flow rate (mL/min at 0.1 bar)

Fluorodyne II membrane	240
Supor membrane	300

Bacterial retention

Lot samples retain a minimum of 10^7 cfu/cm^2 of *B. diminuta* per modified ASTM F838-83

Endotoxin level

< 0.25 EU/mL using LAL test

Biological safety

Passes USP Biological Reactivity Test, *in vivo*, <88>

Sterilization

Sterilized by gamma irradiation

Ordering information

AcroPak 200 sterile capsules with filling bell

Membrane	µm	Product code
Fluorodyne II membrane	0.2	12069
Supor membrane	0.8/0.2	12941

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AcroPak 400 and 800 sterile capsules

WITH FLUORODYNE II MEMBRANE

Technical specifications

Materials of construction

Filter media	Hydrophilic PVDF
Housing, vent plug, and support material	PP
Sealing technology	Thermal bonding
Filling bell	Polycarbonate

Nominal dimensions

Pore size	0.1 µm 0.2 µm
Effective filtration area:	
400 capsules	400 cm^2
800 capsules	800 cm^2
Housing diameter	6.1 cm (2.4 in.)
Approximate housing length with filling bell:	
400 capsules	19 cm (7.5 in.)
800 capsules	22.5 cm (8.9 in.)

Inlet/outlet connections

0.1 µm	14 mm (9/16 in.) hose barb with filling bell on outlet
0.2 µm	6.4–12.7 mm (¼–½ in.) stepped hose barb with filling bell on outlet

Operating conditions

Maximum operating temperature and pressure	5.2 bar (75 psi) at 40°C

Minimum bubble point (water)

0.2 µm	3.2 bar (46 psi)

Minimum bubble point (60% IPA/40% H_2O [v:v])

0.1 µm	1.8 bar (26 psi)

Typical water flow rate (mL/min at 0.1 bar)

	400 capsules	800 capsules
0.1 µm	0.3	0.6
0.2 µm	0.5	0.9

Bacterial retention

Lot samples retain a minimum of 10^7 cfu/cm^2 of *B. diminuta* per modified ASTM F838-83

Endotoxin level

< 0.25 EU/mL using LAL test

Biological safety

Passes USP Biological Reactivity Test, *in vivo*, <88>

Sterilization

Sterilized by gamma irradiation

Ordering information

AcroPak 400 sterile capsules with filling bell

Membrane	µm	Product code
Fluorodyne II membrane	0.1	12472
Supor membrane	0.2	12478

AcroPak 800 sterile capsules with filling bell

Membrane	µm	Product code
Fluorodyne II membrane	0.1	12473
	0.2	12471

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AcroPak 500, 1000, and 1500 sterile capsules

WITH SUPOR MEMBRANE

Technical specifications

Materials of construction

Filter media	Hydrophilic polyethersulfone
Housing, vent plug, and support material	PP
Sealing technology	Thermal bonding
Filling bell	Polycarbonate

Nominal dimensions

Pore size	0.1/0.1 µm 0.2/0.2 µm 0.8/0.2 µm 0.8/0.45 µm
Effective filtration area:	
500 capsules	500 cm^2
1000 capsules	1000 cm^2
1500 capsules	1500 cm^2
Housing diameter	6.9 cm (2.7 in.)
Overall housing length (without filling bell):	
500 capsules	14.5 cm (5.7 in.)
1000 capsules	19.3 cm (7.6 in.)
1500 capsules	22.9 cm (9.0 in.)

Inlet/outlet connections

500 and 1000 capsules	6.4–12.7 mm (¼–½ in.) stepped hose barb with filling bell on outlet
1500 capsules	12.7 mm (½ in.) straight hose barb, without filling bell on outlet

Typical hold-up volume

500 capsules	≤ 30 mL
1000 capsules	≤ 45 mL

Operating conditions

Maximum operating temperature and pressure	60°C at 2.1 bar (30 psi) 4.1 bar (60 psi) at ambient temperature

Minimum bubble point (water)

0.2 µm	3.5 bar (51 psi)
0.45 µm	1.7 bar (24 psi)

Minimum bubble point (60% IPA/40% H_2O [v:v])

0.1 µm	2.4 bar (35 psi)

Typical water flow rate (mL/min at 1.0 bar)

	500 capsules	1000 capsules	1500 capsules
0.1/0.1 µm	0.2	0.4	–
0.2/0.2 µm	0.6	1.1	1.6
0.8/0.2 µm	1.1	1.6	2.2
0.8/0.45 µm	1.3	2.5	–

Bacterial retention

0.1/0.1 µm	Lot samples retain a minimum of 10^7 cfu/cm^2 of *Acholeplasma laidlawii* per modified ASTM F838-83

Endotoxin level

< 0.25 EU/mL using LAL test

Biological safety

Passes USP Biological Reactivity test, *in vivo*, <88>

Sterilization

Sterilized by gamma irradiation
If desired, autoclave once only prior to use at 121°C–123°C for a maximum of 20 minutes

Ordering information

AcroPak 500 sterile capsules with filling bell

Membrane	µm	Product code
Supor membrane	0.1/0.1	12997
	0.2/0.2	12995
	0.8/0.2	12991
	0.8/0.45	12993

AcroPak 1000 sterile capsules with filling bell

Membrane	µm	Product code
Supor membrane	0.1/0.1	12999
	0.2/0.2	12996
	0.8/0.2	12992
	0.8/0.45	12994

AcroPak 1500 sterile capsules without filling bell

Membrane	µm	Product code
Supor membrane	0.2/0.2	12686
	0.8/0.2	12675

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Complementary products

Sterile Acrodisc™ syringe filters with PP housing for scale-up

Description	Product code
Fluorodyne II membrane, 0.2 µm, 25 mm	4907
Posidyne membrane, 0.2 µm, 25 mm	4908
Ultipor membrane, 0.2 µm, 25 mm	4906
Supor membrane, 0.8/0.2 µm, 25 mm	4905

Sterile Acrodisc syringe filters with modified acrylic housing

Description	Product code
Supor membrane, 0.1 µm, 25 mm	4611
Supor membrane, 0.2 µm, 25 mm	4612
Supor membrane, 0.45 µm, 25 mm	4614
Supor membrane 0.8 µm, 25 mm	4618
Supor membrane, 0.8/0.2 µm, 25 mm	4187
Supor membrane, 0.1 µm, 32 mm	4651
Supor membrane, 0.2 µm, 32 mm	4652
Supor membrane, 0.45 µm, 32 mm	4654
Supor membrane, 1.2 µm, 32 mm	4656
Supor membrane, 5 µm, 32 mm	4650
Supor membrane 0.8/0.2 µm, 32 mm	4658

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