Sterile Acrodisc™ syringe filters with Supor™ membrane

Instructions for Use

Introduction

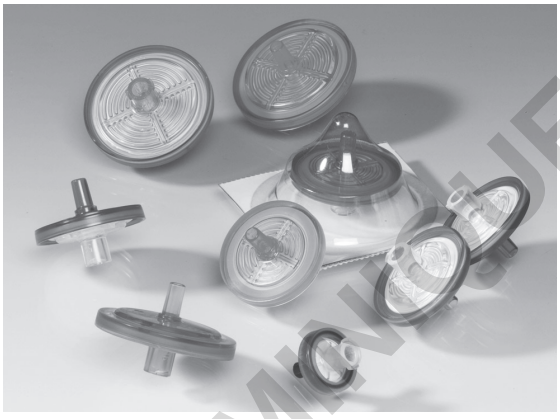
Intended use

Cytiva Lab Filtration products are designed for professional laboratory applications only. These products are not approved for use in medical, clinical, surgical or other patient protection applications. They are also not suitable for use in Biopharmaceutical manufacturing or production.

Important

Employment of the products in applications not specified, or failure to follow all instructions contained in this Instructions for Use, can result in personal injury, damage to property or the product, or improper functioning of the product.

Description



Acrodisc™ syringe filters with Supor™ membrane are designed for a variety of sterile laboratory filtration applications. Supor (polyethersulfone) membrane is low protein binding and provides fast filtration and high throughput. All sterile Acrodisc syringe filters are individually packaged in blister packs and sterilized using gamma irradiation to eliminate potential or harmful extractables common with other sterilization methods such as EtO. Acrodisc PF syringe filters with unique built-in prefilter can be used for increased throughput of viscous or particulate-laden solutions.

Instructions for use (aseptic technique)

Note: *These filters are for single use only.*

Step	Action
1	Before filling the syringe with sample solution, draw approximately 1 mL of air into the syringe. This allows the air to follow the sample out of the syringe. This "air purge" minimizes fluid retention within the filter device.
2	Fill syringe with solution to be filtered. ***Note:*** *Use of syringes smaller than 10 mL can generate excessive pressures on the filter which can exceed maximum operating pressure. Exceeding the maximum operating pressure can result in membrane or housing rupture.*
3	Peel off the backing from the blister package.
4	Holding the blister in one hand and the filled syringe in the other, secure (without excessive force) the filled syringe to the filter device with a twisting motion.
5	Apply gentle thumb pressure to begin filtration (a gentle pressure assures maximum throughput). ***Note:*** *As the filter removes the particulate, filtration becomes more difficult (the syringe plunger becomes harder to push) and pressure rapidly increases on the filter. Change filters when resistance becomes excessive. Failure to change filter can result in housing rupture as the maximum operating pressure is exceeded, or membrane rupture, leading to particulate contaminating the filtrate.*

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Specifications

Parameter	Specification	
Materials of construction	Filter media: Supor membrane (hydrophillic polyethersulfone) Housings: 13: Polypropylene 25: Modified acrylic	
Effective filtration area	13 mm: 1.0 cm^2 25 mm: 2.8 cm^2	
Typical hold-up volume (with air purge)	13 mm: ≤ 60 µL 25 mm: ≤ 300 µL	
Inlet and outlet connections	Female luer lock inlet Male slip luer outlet	
Maximum operating pressure	5.2 bar (520 kPa, 75 psi)	
Maximum operating temperature	55°C (131 °F)	
Endotoxin level	< 0.25 EU/mL using Limulus Amoebocyte Lysate (LAL) test	
Typical water flow rate mL/min at 3.1 bar (310 kPa, 45 psi)	13 mm, 0.2 µm: 22 13 mm, 0.45 µm: 35 13 mm, 0.8 µm: 150 25 mm, 0.1 µm: 35 25 mm, 0.2 µm: 175 25 mm, 0.45 µm: 300 25 mm, 0.8/0.2 µm: 145 25 mm, 0.8 µm: 700	
Minimum bubble point (psi)	Water: 4602: 46 psi 4604: 26 psi 4608: 11 psi 4612: 46 psi 4187: 46 psi 4614: 30 psi 4618: 12 psi	Kerosene: 4611: 30 psi

Ordering information

Product code	Sterile Acrodisc syringe filters with Supor membrane	Packaging
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
4187	0.8/0.2 µm, 25 mm	50/pkg
4614	0.45 µm, 25 mm	50/pkg
4618	0.8 µm, 25 mm	50/pkg

Complementary products

Product code	Acrodisc syringe filters with Supor membrane	Packaging
4651	0.1 µm, 32 mm	50/pkg
4652	0.2 µm, 32 mm	50/pkg
4654	0.45 µm, 32 mm	50/pkg
4658	0.8/0.2 µm, 32 mm	50/pkg
4656	1.2 µm, 32 mm	50/pkg
4650	5 µm, 32 mm	50/pkg

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