

33мм СТЕРИЛЬНЫЕ ШПРИЦЕВЫЕ ФИЛЬТРЫ MILEX



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Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://millipore.nt-rt.ru> || <mailto:mer@nt-rt.ru>

Millex® (33 mm) Sterile Syringe Filter

Introduction

This document provides compatibility information, operating steps, and specifications for the Durapore® hydrophilic PVDF family of sterile Millex® filters. The Millex® filter's bidirectional support of the filter membrane enables users to filter aqueous solutions in either direction; forward (from the syringe into the container) or backward (from the container into the syringe). The Millex® filter removes microorganisms, particles, precipitates, and undissolved powders larger than the membrane's rated pore size. These single-use filters consist of a membrane filter sealed in an acrylic housing. They are non-pyrogenic and non-toxic.

Applications

For research use only. Typical research laboratory applications include the sterile filtration (VV/GV) and/or clarification (VV/GV/HV) of protein solutions, tissue culture media, additives, buffers, and water.

How to Use the Millex® Sterile Filter

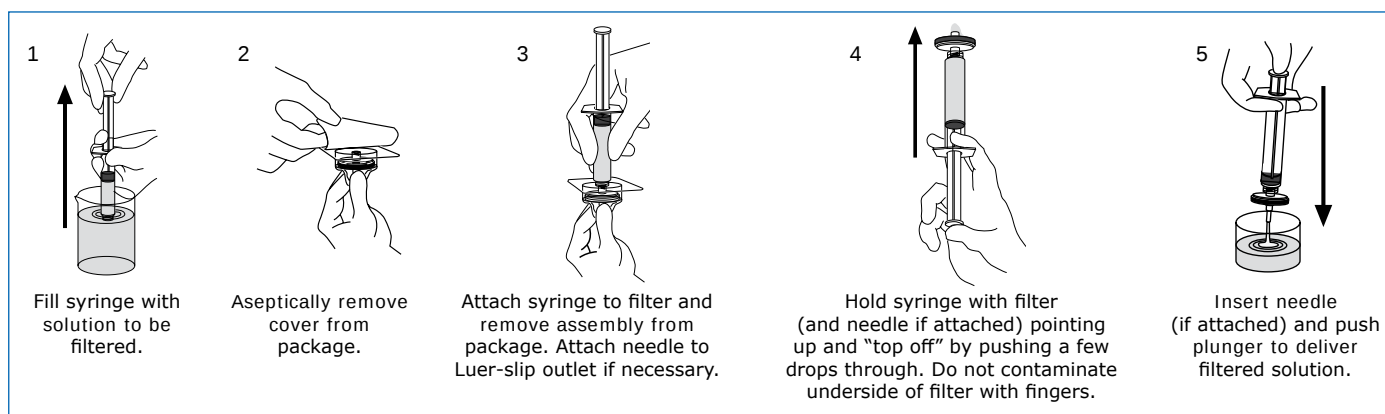
WARNINGS:

- To ensure sterility, do not use this product if the package is damaged.
- Do not use this product as an in-line filter for intravenous fluid administration; it was not designed for long-term continuous use.

CAUTIONS:

- Do not use the Millex® filter to filter fluids at temperatures above 45 °C (113 °F).
- Do not use the Millex® filter to filter emulsions or suspensions because it was not designed for that purpose.
- Do not use the Millex® filter to filter solutions containing 5 milligrams (mg) or less of materials unless binding studies have been performed.
- Do not use the same Millex® filter to filter solutions in both directions.
- Do not re-sterilize or reuse the Millex® filter, as we cannot assure the sterility, integrity, and performance beyond a single use.

Instructions for use



Specifications

Materials		Temperature limit	45 °C (113 °F) maximum
Membrane	Low binding hydrophilic polyvinylidene fluoride Pore size: Millex®-VV filter: 0.10 µm Millex®-GV filter: 0.22 µm Millex®-HV filter: 0.45 µm	Housing Pressure at 25 °C	10.3 bar (150 psi) inlet maximum
Housing	Acrylic	Filtration volume	10 mL to 100 mL
Dimensions		Hold-up volume	≤ 0.1 mL after air purge
Inlet to outlet	27 mm (1.06 in.)	Sterilization method	Gamma irradiation
Diameter	33 mm (1.30 in.)	Connections	Female Luer-Lok™ inlet; male Luer-slip outlet
Filtration area	4.52 cm² (0.70 in²)	Flow rate at 2.1 bar (30 psi), 21 °C	Millex®-VV filter: ≥ 25 mL/min Millex®-GV filter: ≥ 40 mL/min Millex®-HV filter: ≥ 300 mL/min

Chemical Compatibility

The Millex® filter with Durapore® membrane is compatible with most aqueous solutions. Based on information from technical publications, materials suppliers, and laboratory tests, we believe that the agents listed in the following chart are safe to use with Millex® filters. However, because of the effects of variability in temperature, concentrations, duration of exposure, and other factors outside of our control, we do not provide or imply a warranty with respect to this information.

Chemicals

Acetic acid (5%)	Hexane	Pentane
Alconox® detergent (1%)	Hydrochloric acid (6 N)	Perchloroethylene
Aliphatic ethers	Hydrofluoric acid	Petroleum based oils
Ammonium hydroxide (6 N)	Hydrogen	Petroleum ether
Amyl acetate	Hydrogen peroxide (90%)	Phenol (aqueous solution)
Benzyl alcohol (1%)	HYPO (aqueous solution)	Potassium hydroxide (3 N)
Boric acid (aqueous solution)	Isopropyl acetate	Pyridine
Carbon tetrachloride	Kerosene	Silicone oils
CHAPS (aqueous solution)	Lactic acid (50%)	Sodium carbonate(aqueous solution)
Diethyl pyrocarbonate (0.2%)	Lubrol® PX emulsifier	Sodium chloride(aqueous solution)
Ethers	(aqueous solution)	Sodium dodecyl sulfate
Ethylene glycol	Mercaptoethanol (0.1 M)	Sodium hydroxide (concentrated)
Formic acid (50%)	Mineral spirits	Trichloroacetic acid (aqueous solution)
Freon® solvent (TF or PCA)	Nitric acid (6 N)	Tween® 20 surfactant
Gasoline	Nitrogen	(aqueous solution)
Glycerine (glycerol)	Nonidet™-P 40 surfactant	Urea (8 M)
Guanidine hydrochloride (6 M)	(aqueous solution)	Water (brine)
Guanidine thiocyanate (5 M)	Ozone	Water (deionized)
Helium	Paraldehyde	

Active Drug Compounds

Drug	Comments	Drug	Comments	Drug	Comments
Aminophylline	water soluble	Etoposide	30% alcohol	Mitoxantrone	water soluble
Ampicillin	water soluble	Factor III	water soluble	Moxalactam	water soluble
Aspartame	water soluble	Factor IX	water soluble	Nitroglycerin	water soluble
Bleomycins	water soluble	Fentanyl	water soluble	Norepinephrine	water soluble
Caffeine	water soluble	Fluorouracil	water soluble	Penicillin G	water soluble
Cefazolin	water soluble	Folic Acid	water soluble	potassium	
Cefoxitin	water soluble	Furosemide	water soluble	Phenobarbital	water soluble
Cephalothin	water soluble	Gentamicin	water soluble	Piperacillin	water soluble
Cisplatin	water soluble	Hemin	water soluble	Plicamycin	water soluble
Colistin	suspension	Heparin	water soluble	Prochlorperazine	water soluble
	+ surfactant	Hydrocortisone	water soluble	Protamines	water soluble
Cytarabine	water soluble	21-glycol		Streptokinase	water soluble
Dactinomycin	water soluble	sodium succinate		Sulfamethomidine	50% alcohol
Daunorubicin	water soluble	Immunoglobulins	water soluble	Tobramycin	water soluble
Dexamethasone	5% alcohol	Insulin	water soluble	Trimethoprim	water soluble
Diazepam	40% alcohol	Isoproterenol	water soluble	Urokinase	water soluble
Digoxin	50% alcohol	Lidocaine	water soluble	Vidarabine	water soluble
Dobutamine	water soluble	Mannitol	water soluble	Vinblastine	water soluble
Dopamine	water soluble	Metronidazole	water soluble	Vincristine	water soluble
Doxorubicin	water soluble	Mitoguazone	water soluble		
Ergonovine	water soluble	Mitomycins	water soluble		

Product Ordering

Description	Pore Size, µm	Membrane	Cat. No.	Qty / pk
Millex®-VV	0.10	PVDF membrane	SLVVR33RS	50
Millex®-GV	0.22	PVDF membrane	SLGVR33RS	50
Millex®-GV	0.22	PVDF membrane	SLGVR33RB	250
Millex®-HV	0.45	PVDF membrane	SLHVR33RS	50
Millex®-HV	0.45	PVDF membrane	SLHVR33RB	250

Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.



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