

# Whatman Mini-UniPrep Syringeless Filters

## Instructions for use

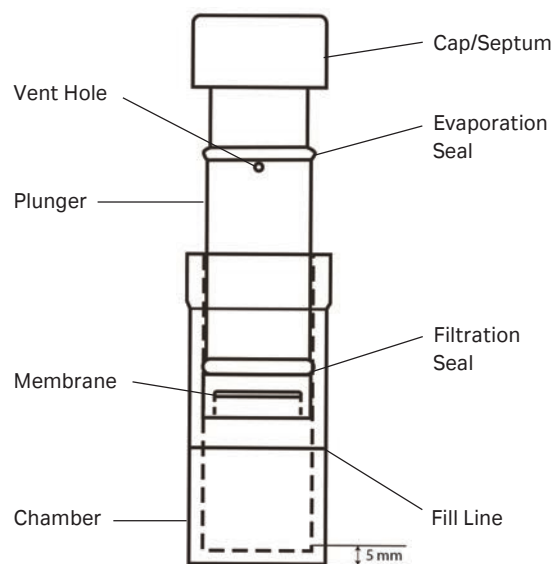
### Introduction

#### Important

Read these instructions carefully before using the products.

#### Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.



Adjust autosampler needle height to a minimum of 5 mm

Mini-UniPrep™ Syringeless Filters are preassembled filtration devices for removing particulates from samples. They replace syringe filters, syringes and autosampler vials/septa/caps with a single, disposable unit.

Each Mini-UniPrep consists of two parts: a chamber and a plunger. The design incorporates a filtration membrane on one end of the plunger and a preattached cap/septum on the other. By pressing the plunger through liquid placed into the chamber, positive pressure forces the filtrate up into the reservoir of the plunger. Air escapes through the vent hole until the evaporation seal is engaged providing an airtight seal.

The Mini-UniPrep can be used with any autosampler that takes standard (12mm x 32mm profile) 2 ml vials for automated sample injection into your instrument.

#### Safety Precaution

Do not overfill the Mini-UniPrep or compress the device at an angle before the airtight seal is made. Liquid could escape out of the air vent holes, resulting in the loss of sample or personal injury.

### Instructions for Use

Step	Action
1	Select the Mini-UniPrep Syringeless Filter that is compatible with your sample. (See <i>Chemical Compatibility Guide</i> .)  If your solvent is not listed, see <a href="http://cytiva.com/contact">cytiva.com/contact</a> for Technical Support contact details. Add sample to be filtered to the chamber. <b>Be careful not to exceed the fill line.</b> Each Mini-UniPrep has a capacity of approximately 0.4 mL.
2	Insert a plunger into each Mini-UniPrep chamber until the membrane contacts the liquid.  If filtering manually without the Compressor; slowly compress the plunger and chamber with your thumb and forefinger until the evaporation seal is fully engaged.
3	The Mini-UniPrep prepared sample is ready for analysis. Process in either of two ways: <ol style="list-style-type: none"> <li>Place the Mini-UniPrep into a suitable autosampler for automated sample injection into your instrument.</li> <li>Pierce the septum and draw the filtered sample into a syringe for manual injection into your instrument.</li> </ol>

### Ordering Information – Whatman Mini-UniPrep Syringeless Filters

Catalog Number	Pore Size (µm)	Media	Quantity/Pack
<b>Translucent Housing - Standard Cap</b>			
UN203NPEAQU	0.2	PVDF	100
UN203NPENYL	0.2	Nylon	100
UN203NPEORG	0.2	PTFE	100
UN203NPEPES	0.2	PES	100
UN203NPEPP	0.2	PP	100
UN203NPUAQU	0.45	PVDF	100
UN203NPUDPP	0.45	Dp PP	100
UN203NPUGMF	0.45	GMF	100
UN203NPUNYL	0.45	Nylon	100
UN203NPUORG	0.45	PTFE	100
UN203NPUPES	0.45	PES	100
UN203NPUPP	0.45	PP	100
UN203NPERC	0.2	RC	100
UN203NPURC	0.45	RC	100
UN503NPEAQU	0.2	PVDF	1000
UN503NPENYL	0.2	Nylon	1000
UN503NPEORG	0.2	PTFE	1000

Catalog Number	Pore Size (µm)	Media	Quantity/Pack
UN503NPEPES	0.2	PES	1000
UN503NPEPP	0.2	PP	1000
UN503NPUAQU	0.45	PVDF	1000
UN503NPUDPP	0.45	Dp PP	1000
UN503NPUGMF	0.45	GMF	1000
UN503NPUNYL	0.45	Nylon	1000
UN503NPUORG	0.45	PTFE	1000
UN503NPUPES	0.45	PES	1000
UN503NPUPP	0.45	PP	1000
UN503NPERC	0.2	RC	1000
UN503NPURC	0.45	RC	1000

Catalog Number	Pore Size (µm)	Media	Quantity/Pack
US203APUNYL	0.45	Nylon	100

#### Multi Compressor Accessories

MUPMCPBC8 Multicompressor	1
MUPMCBT8 Multicompressor Tray	1

### Chemical Compatibility of Membrane

Solvent	GMF	NYL	PES	PP	PTF E	PVD F	RC
Acetic Acid 5% +	R	R	R	R	R	R	R
Acetic Acid, Glacial	R	LR	R	R	R	R	NR
Acetone	R	R	NR	R	R	NR	R
Acetonitrile	R	R	NR	R	R	R	R
Ammonia, 6N	LR	R	R	R	R	LR	LR
Amyl Acetate	R	R	LR	R	R	LR	R
Amyl Alcohol	R	R	NR	R	R	R	R
Benzene *	R	LR	R	LR	R	R	R
Benzyl Alcohol *	R	LR	NR	R	R	R	R
Boric Acid	R	LR	+	R	R	R	R
Butyl Alcohol	R	R	R	R	R	R	R
Butyl Chloride *	R	NR	+	NR	R	R	+
Carbon Tetrachloride *	R	LR	NR	LR	R	R	R
Chloroform *	R	NR	NR	LR	R	R	R
Chlorobenzene	R	*	NR	+	R	R	R
Citric Acid	R	R	R	+	R	R	R
Cresol	R	NR	NR	R	R	NR	R
Cyclohexane	R	R	R	R	R	R	R
Cyclohexanone	R	NR	NR	R	R	R	R
Diethyl Acetamide	R	R	+	R	R	NR	R
Dimethyl Formamide	R	R	NR	R	R	NR	LR
Dioxane	R	R	LR	R	R	LR	R
DMSO	R	R	NR	R	R	LR	LR
Ethanol	R	R	R	R	R	R	R
Ethers	R	R	R	R	R	LR	R
Ethyl Acetate	R	R	NR	R	R	LR	R
Ethylene Glycol	R	R	R	R	R	R	R
Formaldehyde	R	R	R	R	R	R	R
Formic Acid	R	NR	LR	R	R	R	LR
Freon TF	R	R	R	R	R	R	+
Hexane	R	R	R	R	R	R	R
Hydrochloric Acid (Conc)	R	NR	R	LR	R	R	NR
Hydrofluoric Acid	R	NR	+	LR	R	R	NR
Isobutyl Alcohol	R	R	+	R	R	R	R
Isopropyl Acetate	R	R	+	R	R	R	R
Methanol	R	R	R	R	R	R	R
Methyl Ethyl Ketone	R	R	NR	R	R	LR	R
Methylene Chloride *	R	NR	NR	LR	R	R	R

#### Translucent Housing - Slit Septa for Automated Samples

US203NPEAQU	0.2	PVDF	100
US203NPENYL	0.2	Nylon	100
US203NPEORG	0.2	PTFE	100
US203NPEPES	0.2	PES	100
US203NPEPP	0.2	PP	100
US203NPUAQU	0.45	PVDF	100
US203NPUDPP	0.45	Dp PP	100
US203NPUGMF	0.45	GMF	100
US203NPUNYL	0.45	Nylon	100
US203NPUORG	0.45	PTFE	100
US203NPUPES	0.45	PES	100
US203NPUPP	0.45	PP	100
US503NPEAQU	0.2	PVDF	1000
US503NPENYL	0.2	Nylon	1000
US503NPEORG	0.2	PTFE	1000
US503NPEPES	0.2	PES	1000
US503NPEPP	0.2	PP	1000
US503NPUAQU	0.45	PVDF	1000
US503NPUDPP	0.45	Dp PP	1000
US503NPUGMF	0.45	GMF	1000
US503NPUNYL	0.45	Nylon	1000
US503NPUORG	0.45	PTFE	1000
US503NPUPES	0.45	PES	1000
US503NPUPP	0.45	PP	1000

#### Amber for Light Sensitive Samples - Standard Cap

UN203APEAQU	0.2	PVDF	100
UN203APENYL	0.2	Nylon	100
UN203APEORG	0.2	PTFE	100
UN203APEPES	0.2	PES	100
UN203APEPP	0.2	PP	100
UN203APUAQU	0.45	PVDF	100
UN203APUDPP	0.45	Dp PP	100
UN203APUGMF	0.45	GMF	100
UN203APUNYL	0.45	Nylon	100
UN203APUORG	0.45	PTFE	100
UN203APUPES	0.45	PES	100
UN203APUPP	0.45	PP	100

#### Amber for Light Sensitive Samples - Slit Septa for Automated Samples

Solvent	GMF	NYL	PES	PP	PTF E	PVD F	RC
Nitric Acid (Conc)	R	NR	NR	NR	R	NR	NR
Nitric Acid, 6N	R	NR	LR	LR	R	LR	LR
Nitrobenzene *	R	LR	NR	R	R	R	R
Pentane	R	R	R	LR	R	R	R
Perchloro Ethylene	R	R	NR	R	R	R	R
Phenol (0.5%)	R	R	NR	R	R	R	R
Pyridine	R	LR	NR	R	R	R	R
Sodium Hydroxide, 6N	NR	LR	L	R	R	NR	NR
Sulfuric Acid (Conc)	R	NR	NR	NR	R	NR	NR
Tetrahydrofuran	R	R	NR	LR	R	R	R
Toluene *	R	LR	NR	LR	R	R	R
Trichloroethane *	R	LR	NR	R	R	R	R
Trichloroethylene *	R	NR	NR	R	R	R	R
Water	R	R	R	R	R	R	R
Xylene *	R	LR	LR	LR	R	R	R

(R = Resistant; LR = Limited Resistance; NR = Not Resistant; + = Insufficient Data; \* = Short term resistance of housing).

## Membrane Guide

Type	Applications
<b>Glass Microfiber (GMF)</b>	High loading capacity, binder-free, glass microfiber depth filter medium.
<b>Nylon (NYL)</b>	Membrane for aqueous and organic samples within a pH range of 3-10.
<b>Polyethersulfone (PES)</b>	For aqueous-based samples. Good flow rates.
<b>Polypropylene (Dp PP)</b>	Aqueous and organic samples; high loading capacity depth filter.
<b>Polypropylene (PP)</b>	For solvent-based samples, low water breakthrough values.
<b>Polytetrafluoro-ethylene (PTFE)</b>	For aggressive samples. Great chemical compatibility.
<b>Polyvinylidene difluoride (PVDF) (Hydrophilic)</b>	Low nonspecific protein binding membrane for samples in aqueous solutions or organic solvents.
<b>Regenerated Cellulose (RC)</b>	Suitable for use with either aqueous or organic solvents. Very low nonspecific protein binding membrane.

**cytiva.com**

Cytiva and the Drop logo are trademarks of Global Life Sciences IP Holdco LLC or an affiliate.

Whatman™, and Mini-UniPrep are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.

All other third-party trademarks are the property of their respective owners.

© 2020-2021 Cytiva

All goods and services are sold subject to the terms and conditions of sale of the supplying company operating within the Cytiva business. A copy of those terms and conditions is available on request. Contact your local Cytiva representative for the most current information.

For local office contact information, visit [cytiva.com/contact](https://cytiva.com/contact)

90386 AF V:7 02/2021

