

# Mini-UniPrep Syringeless Filter

Prepare HPLC Samples Three Times Faster.

Whatman Mini-UniPrep™ Syringeless Filters provide a faster, easier way to remove particulates from samples being prepared for High Performance Liquid Chromatography (HPLC) analysis. Add up the time savings, plus the money saved from cutting multiple consumables out of the sample preparation process, and you'll see huge benefits for your lab.

## Features and Benefits

- **Ease of use** Filtering and storage vial allows you to process sample loads in one-third the time.
- **Wide range of membranes** Suits a variety of sample types.
- **Available in 0.2 and 0.45 µm pore sizes** Meets specific sample requirements.
- **Compatible with all major autosamplers** Allows you to speed processes.
- **Fewer consumables required** Lowers costs by up to 40 percent.

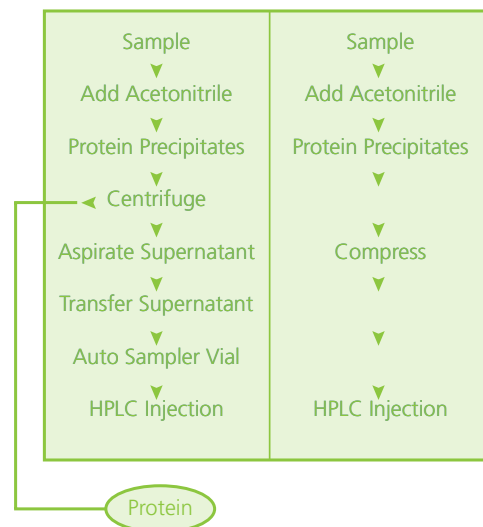
## Applications

- Routine analysis
- Composite assays
- Content uniformity
- Protein precipitation
- Solubility testing
- Dissolution testing
- Sample filtration



The Mini-UniPrep Syringeless Filter on the left is shown with fluid in the chamber. On the right, the filter plunger is shown compressed with the sample ready for analysis.

## Protein Precipitation 'Spin' Method vs. Mini-UniPrep Method



## A Variety Of Special Mini-UniPrep Filters To Meet Your Specific Needs

In a process of continuous improvement and innovation, Whatman has listened to customers and created a whole family of Mini-UniPrep filters to meet specific needs. For customers using robotics to maximize throughput, Whatman offers Slit Septa Mini-UniPrep. For customers who need to protect samples from light damage, there's Amber Mini-UniPrep.

### Slit Septa Mini-UniPrep Syringeless Filter

For High Throughput Automation.



#### Features and Benefits

- **Slit septa cap** Enables Mini-UniPrep use with current robotics on HPLC instruments for high throughput automation.
- **Increases needle longevity** Eliminates coring problems associated with repeated sampling.
- **Available in 0.2 and 0.45 µm pore sizes** Meets specific sample requirements.
- **Durable yet flexible** Slit septa cap has been specially designed for instruments with sensitive sampling needs.

#### Applications

- Use with standard robotics on HPLC instruments with sensitive needles, allowing for higher throughput.

### Amber Mini-UniPrep Syringeless Filter

Protects Samples From Light Damage.

#### Features and Benefits

- **Amber colorant** Prevents photo degradation of light-sensitive samples. Same colorant used in pharmaceutical containers designed to meet USP specifications for light resistance.
- **Translucent amber chamber and plunger** Easy visual inspection.

#### Applications

- Use with any compound that requires protection from light, such as catecholamine or vitamins.



### Six-Position Compressor Makes Your Job Even Easier



The optional compressor allows you to process up to six Mini-UniPrep filters at the same time, further speeding your workflow and reducing the risk of hand stress.

## Mini-UniPrep Makes It Faster And Easier To Process HPLC Samples.



### Simple.

Place unfiltered sample in chamber.



### Innovative.

Compress filter plunger into sample chamber. Clean filtrate fills reservoir from bottom up.



### Convenient.


The Mini-UniPrep vial shape fits easily in autosamplers.

The filter membrane is housed at one end of a plunger, with a cap/septum on the other. By pressing the plunger through the sample placed into the chamber, positive pressure forces the filtrate into the reservoir of the plunger. Air escapes through vent holes until the evaporation seal is engaged, providing an airtight seal. Within seconds the Mini-UniPrep can be placed into your auto sampler for injection into your instrument.

## Choose the Right Mini-UniPrep Filtering Media

Sample Type	Suitable Mini-UniPrep Media
Particulate laden liquids	Glass Microfiber (GMF)
Aqueous/Organic samples in 3 to 10 pH range	Nylon (NYL)
General filtration media/Solvent based samples	Polypropylene (PP)
Chemically aggressive solutions	Polytetrafluoroethylene (PTFE)
Biological samples requiring low protein binding media	Polyethersulfone (PES) or Regenerated Cellulose (RC)
Aqueous/Organic solvents – low non-specific protein binding media	Polyvinylidene fluoride (PVDF)
Aqueous/Organic solvents – high flow and loading capacity	Polypropylene Depth (dp PP)

## Technical Specifications

Dimensions	 Equivalent in size to 12 mm x 32 mm vials
Materials of Construction	<b>Housing and Cap:</b> Polypropylene <b>Filter Media:</b> As specified <b>Septa:</b> PTFE Membrane and Silicone Rubber
Filtering Capacity	0.4 mL
Nominal Force Needed to Compress	Approximately 8 psi (0.6 Bar)
Max. Operating Temperature	120 °F (50 °C)

## Ordering Information - Mini-UniPrep Syringeless Filters

Standard Cap - Translucent Housing		
Catalog Number	Pore Size (µm)	Pack Size
<b>Nylon Filtration Media</b>		
UN203NPENYL	0.2	100
UN503NPENYL	0.2	1000
UN203NPUNYL	0.45	100
UN503NPUNYL	0.45	1000
<b>PES Filtration Media</b>		
UN203NPEPES	0.2	100
UN503NPEPES	0.2	1000
UN203NPUPES	0.45	100
UN503NPUPES	0.45	1000
<b>PVDF Filtration Media</b>		
UN203NPEAQU	0.2	100
UN503NPEAQU	0.2	1000
UN203NPUAQU	0.45	100
UN503NPUAQU	0.45	1000
<b>RC Filtration Media</b>		
UN203NPERC	0.2	100
UN503NPERC	0.2	1000
UN203NPURC	0.45	100
UN503NPURC	0.45	1000
<b>PTFE Filtration Media</b>		
UN203NPEORG	0.2	100
UN503NPEORG	0.2	1000
UN203NPUORG	0.45	100
UN503NPUORG	0.45	1000
<b>PP Filtration Media</b>		
UN203NPEPP	0.2	100
UN503NPEPP	0.2	1000
UN203NPUPP	0.45	100
UN503NPUPP	0.45	1000
<b>DEPTH PP Filtration Media</b>		
UN203NPUDPP	0.45	100
UN503NPUDPP	0.45	1000
<b>GMF Filtration Media</b>		
UN203NPUGMF	0.45	100
UN503NPUGMF	0.45	1000

### Ordering Information - Mini-UniPrep Syringeless Filters (Continued)

Slit Septum Cap - Translucent Housing		
Catalog Number	Pore Size (µm)	Pack Size
<b>Nylon Filtration Media</b>		
US203NPENYL	0.2	100
US503NPENYL	0.2	1000
US203NPUNYL	0.45	100
US503NPUNYL	0.45	1000
<b>PES Filtration Media</b>		
US203NPEPES	0.2	100
US503NPEPES	0.2	1000
US203NPUPES	0.45	100
US503NPUPES	0.45	1000
<b>PVDF Filtration Media</b>		
US203NPEAQU	0.2	100
US503NPEAQU	0.2	1000
US203NPUAQU	0.45	100
US503NPUAQU	0.45	1000
<b>PTFE Filtration Media</b>		
US203NPEORG	0.2	100
US503NPEORG	0.2	1000
US203NPUORG	0.45	100
US503NPUORG	0.45	1000
<b>PP Filtration Media</b>		
US203NPEPP	0.2	100
US503NPEPP	0.2	1000
US203NPUPP	0.45	100
US503NPUPP	0.45	1000
<b>DEPTH PP Filtration Media</b>		
US203NPUDPP	0.45	100
US503NPUDPP	0.45	1000
<b>GMF Filtration Media</b>		
US203NPUGMF	0.45	100
US503NPUGMF	0.45	1000

Amber Housing (for Light Sensitive Samples) - Standard Cap		
Catalog Number	Pore Size (µm)	Pack Size
<b>Nylon Filtration Media</b>		
UN203APENYL	0.2	100
UN203APUNYL	0.45	100
<b>PES Filtration Media</b>		
UN203APEPES	0.2	100
UN203APUPES	0.45	100
<b>PVDF Filtration Media</b>		
UN203APEAQU	0.2	100
UN203APUAQU	0.45	100
<b>PTFE Filtration Media</b>		
UN203APEORG	0.2	100
UN203APUORG	0.45	100
<b>PP Filtration Media</b>		
UN203APUDPP	0.2	100
UN203APUPP	0.45	100
<b>DEPTH PP Filtration Media</b>		
UN203APUDPP	0.45	100
<b>GMF Filtration Media</b>		
UN203APUGMF	0.45	100

Amber Housing (for Light Sensitive Samples) - Slit Septum Cap			
Catalog Number	Description	Pore Size (µm)	Pack Size
<b>Nylon Filtration Membrane</b>			
UN203APUNYL	Mini UniPrep Syringeless Filter	0.45	100

Accessories		
Catalog Number	Description	Pack Size
<b>Six Position Compressor</b>		
CR0000006	Mini UniPrep Compressor	1
<b>Adapter</b>		
UN2031545PP	Adapter Sleeve for Auto Sampler Trays Made to Fit 15 x 45 mm Vials	150

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