PALL Laboratory

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Product Information

ValuPrep™ Syringe Filters

For HPLC Sample Preparation and Solvent or Aqueous Filtration

HPLC Certification

Pall Laboratory certifies the following HPLC ValuPrep syringe filters have been tested for compatibility with common HPLC solvents using established HPLC procedures. To verify low levels of UV-detectable extractables, representative samples are tested using a highly sensitive HPLC technique.

NOTE: Extractable levels may be reduced by flushing the filter prior to use.

Ordering Information

Part Number	Description	Pkg
4114	ValuPrep 25 PTFE 0.45 µm	1000/pk
6054521	ValuPrep 25 PTFE 0.2 µm	1000/pk
4118	ValuPrep 25 Nylon 0.45 µm	1000/pk
6054522	ValuPrep 25 Nylon 0.2 µm	1000/pk
6054500	ValuPrep 25 PVDF 0.45 µm	1000/pk
6054520	ValuPrep 25 PVDF 0.2 µm	1000/pk
6604566	ValuPrep 25 wwPTFE 0.45 µm	1000/pk
6604652	ValuPrep 25 wwPTFE 0.2 µm	1000/pk

Instructions For Use

- Before filling the syringe with sample, draw approximately 1 mL of air into the syringe. This will allow the air to follow the sample out of the syringe. This “air purge” minimizes fluid retention within the filter device.
- Fill the syringe with the solution to be filtered. **CAUTION:** Use of syringes smaller than 10 mL can generate excessive pressure on the filter, which may exceed maximum operating pressure.
- Hold the filter device in one hand and the filled syringe in the other, secure (without excessive force) the filled syringe to the device with a twisting motion.
- Apply gentle pressure to begin filtration. (A gentle pressure helps assure maximum throughput.) **CAUTION:** As the filter removes particulate, filtration will become more difficult (the syringe plunger will be harder to use) and pressure will rapidly increase on the filter. Change filters when resistance becomes excessive. Failure to change filter may result in membrane rupture, which results in particulate contaminating the filtrate. These filters are for **single use only**.

Chemical Compatibility

Solvent	wwPTFE ValuPrep Syringe Filters	PTFE ValuPrep Syringe Filters	PVDF ValuPrep Syringe Filters	Nylon ValuPrep Syringe Filters
Acetone	R	R‡	NR‡	R‡
Acetonitrile	R	R	R	R
Acetic acid, glacial	R	R	R	NR
n-Butanol	R	R	R	R
Chloroform	R	R	R	R
Dioxane	R	R	R	–
Dimethyl formamide	R	R‡	NR‡	R‡
Dimethyl sulfoxide	R	R‡	NR‡	R‡
Ethanol	R	R	R	R
Ethyl acetate	R	R‡	R‡	R‡
Ethyl ether	R	R	R	R
Freon TF	R	R	R	R
Hydrochloric acid (1N)	R	R	R	NR
Hexane, dry	R	R	R	R
Methanol	R	R	R	R
Methylene chloride	R	R	R	R
Methyl ethyl ketone	R	R‡	NR‡	R
N-Methyl pyrrolidone	R	R‡	NR‡	R‡
Isopropanol	R	R	R	R
Sodium hydroxide (3N)	R	R	NR	LR
Tetrahydrofuran	R	R	NR	R
Tetrahydrofuran/water (50/50)	R	R	–	R
Toluene	R	R‡	R‡	R‡
Water	R	R	R	R

R = RESISTANT
No significant change was observed in flow rate or bubble point.

LR = LIMITED RESISTANCE
Moderate changes in physical properties of the membrane were observed

NR = NOT RESISTANT
The membrane is basically unstable and is not recommended for use.

– = INSUFFICIENT DATA
Information not available. Trial testing is recommended.

‡ = UV absorbance was set at 254 nm.

Specifications

Materials of Construction
Filter Media:

wwPTFE: wwPTFE membrane (hydrophilic polytetrafluoroethylene)

PTFE: Hydrophobic polytetrafluoroethylene membrane on a polypropylene support

Nylon: Hydrophilic nylon membrane

PVDF: Hydrophilic polyvinylidene fluoride membrane

Housings: Polypropylene

Pore Size
0.2 and 0.45 µm

Effective Filtration Area
25 mm: 2.8 cm^2

Sample Volume
25 mm: <100mL

Inlet/Outlet Connections
Female Luer-Lok inlet/male luer outlet

Typical hold-up volume (with air purge)
25mm: <100 µL

Maximum Operating Temperatures
wwPTFE and Nylon 55 ºC (131 ºF)

PTFE and PVDF 100 ºC (212 ºF)

Maximum Operating Pressure
PVDF: 3.4 bar (340 kPa, 50 psi)

Nylon: 6.2 bar (620 kPa, 90 psi)

wwPTFE and PTFE 6.9 bar (690 kPa, 100 psi)

WARNING
Employment of the products in applications not specified, or failure to follow all instructions contained in this product information data sheet, may result in improper functioning of the product, personal, injury, or damage to property or the product.

The HPLC certification does not apply to packaged products that have been opened or damaged by conditions outside of the control of Pall Laboratory.

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