Laboratory

www.pall.com/lab

AcroPrep™ 24-well Filter Plates With Supor® Membrane

Description

The Pall AcropPrep 24-well filter plates use high performing Supor membrane that enable fast filtration with superior flow rates and low protein binding making them ideal for a variety of applications. The 24-well format allows up to 7 mL of sample to be filtered, eliminating the need to process samples with other labor intense methods and resulting in time savings. Because continuity of membrane media is important to researchers, these plates contain the same superior membrane found in other Pall device formats. Researchers can confidently incorporate these plates into their workflow without costly and time-consuming membrane evaluations.

The Supor Advantage

Supor is a low protein binding polyethersulfone (PES) membrane that is optimized for biological, pharmaceutical, and sterilizing filtration requirements. Supor membrane is low protein binding so it is an excellent choice for sample recovery. Supor membranes have extensive drug and chemical compatibility, making it ideal for many different applications.

Characteristics of the Supor membrane include:

- Fast filtration with superior flow rates
- High throughputs
- Low protein binding
- Low extractables
- High consistency

Application Versatility

Protein Purification: High performance Supor membrane offers optimal support to retain chromatography sorbents while allowing smooth flow of buffers.

Lysate Clearance and General Sample Preparation: Supor membrane is ideal for particulate removal or lysate clearance prior to downstream analysis or subsequent purifications.

Multiplexing Assays: These high-performance membranes do not trap microspheres in the membrane matrix, ensuring superior bead recovery and reducing false positives.

Aqueous Filtration: The broad drug and chemical compatibility of the Supor membrane make it ideal for filtering aqueous solutions that require collections, separation, or removal of contaminants.

AcroPrep 24-Well Filter Plate Features

- Receiver plate and lid are included
- Intrinsic plate and membrane properties minimize sample loss from non-specific binding
- Automation friendly – Compatible with all major automation platforms
- Designed in accordance with the ANSI/SLAS 1-2004 through ANSI/SLAS 6-2004
- Vacuum compatible – Compatible with all popular vacuum and positive pressure manifolds
- Centrifugation – Suitable for centrifugation with compatible rotors
- Gamma irradiated and Individually bagged for ease-of-use

Applications

- Aqueous filtration
- Chromatography screening
- General sample preparation
- Lysate clarification
- Multiplexing assays
- Mycoplasma reduction
- Protein purification
- Sterile filtration

Specifications

Materials of Construction

Filter Media
Supor (polyethersulfone membrane)

Plate Housing
Polypropylene

Lid
Polystyrene

Dimensions
Length: 12.8 cm (5.0 in.)
Width: 8.6 cm (3.4 in.)
Height (With receiver plate): 7.5 cm (2.97 in.)
Height (Without receiver plate): 3.9 cm (1.5 in.)

Well-Bottom Area
1.6 cm^2 (0.24 in^2)

Recommended Working Volume
7 mL for vacuum
6 mL for centrifugation

Recommended Operating Vacuum
≥ 38 cm Hg (15 in. Hg)

Recommended Centrifugal Force
1,500 x g

Recommended Positive Pressure
20 psi

Typical Hold Up Volume

Membrane	Centrifuge (1500 x g)	Vacuum (15 in. Hg)	Positive Pressure (20 psi)
Supor	63 µL	78 µL	35 µL

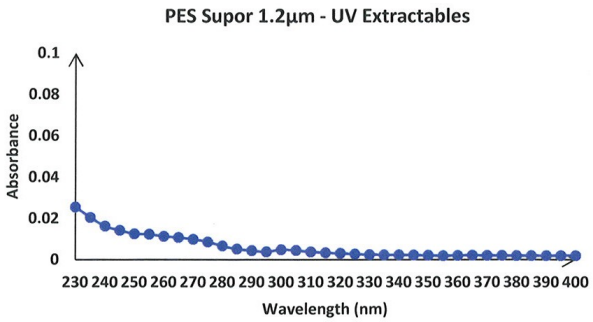
Typical Time to Process

Supor Membrane Pore Size	Centrifuge* (1500 x g)	Vacuum (15 in. Hg)	Positive Pressure (20 psi)
0.1 µm	12	2	3
0.45 µm	< 10	< 1	5
0.8 µm	< 10	< 1	2
1.2 µm	< 10	< 1	< 1
5 µm	< 10	< 1	< 1

*Centrifuge was set for 10 mins. Actual processing time will vary with sample characteristics.

UV Extractables

24-well filter plates with 1.2 µm Supor membrane were scanned at 230 – 400 nm to assess the presence of any UV extractables. The figure below shows that there was no significant absorbance which was seen in all the filter plates tested.



Ordering Information

Part Number	Decription	Pkg
97029	AcroPrep 24-well 0.1 µm Supor	8/pkg
97030	AcroPrep 24-well 0.1 µm Supor	2/pkg
97031	AcroPrep 24-well 0.45 µm Supor	8/pkg
97032	AcroPrep 24-well 0.45 µm Supor	2/pkg
97033	AcroPrep 24-well 0.8 µm Supor	8/pkg
97034	AcroPrep 24-well 0.8 µm Supor	2/pkg
97035	AcroPrep 24-well 1.2 µm Supor	8/pkg
97036	AcroPrep 24-well 1.2 µm Supor	2/pkg
97047	AcroPrep 24-well 5 µm Supor	8/pkg
97048	AcroPrep 24-well 5 µm Supor	2/pkg
97017	AcroPrep 24-well 0.2 µm Supor EKV	2/pkg
97027	AcroPrep 24-well 0.2 µm Supor EKV	8/pkg

PALL Laboratory

Corporate Headquarters
25 Harbor Park Drive
Port Washington, New York 11050

Filtration. Separation. Solution.SM

Visit us on the Web at www.pall.com/lab
E-mail us at LabCustomerSupport@pall.com

1/21, PDF, GN20.1028