



AcroPrep™ 24-well Filter Plates With Omega™ Membrane

Description

The Pall AcroPrep 24-well filter plates use high performing Omega membranes to offer superior performance for ultrafiltration needs. The 24-well format allows filtration of up to 7 mL of sample, eliminating the need to process samples with more labor intense methods and resulting in a time saving because continuity of membrane media is important to researchers, these plates contain the same superior ultrafiltration membrane found in various other device formats. Researchers can confidently incorporate these plates into their workflow without costly and time-consuming membrane evaluation.

The Omega Advantage

The Omega ultrafiltration membrane is a polyethersulfone membrane specifically modified to minimize protein and nucleic acid binding. The Omega membrane works on the premise of size exclusion, where samples are fractionated by molecular weight. Larger molecules can be separated from smaller molecules by selecting the appropriate molecular weight cut-off (MWCO) and filtering the sample through these plates by either centrifugation, vacuum, or positive pressure. The membrane modifications prevent binding of the biomolecules to the membrane and facilitates the concentration of the larger molecules on top of the membrane.

Characteristics of the Omega membrane include:

- Typically results in $\geq 90\%$ recovery of target biomolecules
- Low binding results in less membrane fouling, which can cause retention performance to decay
- Available in a variety of MWCOs for use with wide range of biomolecules
- High membrane consistency allows performance reliability



Application Versatility

- Concentration and purification of peptides, proteins, oligonucleotides, DNA, and RNA
- Clean-up of labelling and PCR reactions
- Desalting and buffer exchange
- Fractionation based on size exclusion

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 X-2004 standards
- Vacuum compatible – Compatible with all popular vacuum and positive pressure manifolds
- Centrifugation – Suitable for centrifugation with compatible rotors

Specifications

Materials of Construction

Filter Media

Omega (modified 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): 73.9 mm (2.9 in.)

Height (Without receiver plate): 37.4 mm (1.5 in.)

Well-Bottom Area: 1.6 cm² (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

50 psi

Typical Hold Up Volume

Membrane pore size (kDa)

		1	3	10	30	50	100
Hold Up Volume (µL)	Centrifuge	19.3	9.8	26.5	24.6	12.8	7
	Vacuum	14	21.2	74.9	14.6	28.8	28.5
Processing Time (min)	Positive Pressure	7.7	15.6	2.8	28.1	70.9	59.3
	Centrifuge	170	135	70	60	60	100
Time (min)	Vacuum	165	135	85	60	60	30
	Positive Pressure	155	70	45	50	55	25

MWCO Selection Guide

MWCO Selection for Protein Applications

MWCO	Biomolecule Molecular Weight
1K, yellow	3K-10K
3K, gray	10K-20K
10K, blue	30K-90K
30K, red	90K-180K
50K, green	150K-300K
100K, clear	300K-900K

MWCO Selection for Nucleic Acid Applications

MWCO	Base Pairs (DS)	Bases (SS)
1K, yellow	5-16 Bp	9-32 Bs
3K, gray	16-32 Bp	32-65 Bs
10K, blue	50-145 Bp	95-285 Bs
30K, red	145-285 Bp	285-570 Bs
50K, green	240-475 Bp	475-950 Bs
100K, clear	475-1,450 Bp	950-2,900 Bs

Ordering Information

Fisher Scientific Part No.	Pall Part No.	Description	Pkg
17399481	97049	7 mL, Omega 1K MWCO	8/pkg
17309491	97050	7 mL, Omega 1K MWCO	2/pkg
17319491	97051	7 mL, Omega 3K MWCO	8/pkg
17329491	97052	7 mL, Omega 3K MWCO	2/pkg
17339491	97053	7 mL, Omega 10K MWCO	8/pkg
17349491	97054	7 mL, Omega 10K MWCO	2/pkg
17359491	97055	7 mL, Omega 30K MWCO	8/pkg
17369491	97056	7 mL, Omega 30K MWCO	2/pkg
17379491	97057	7 mL, Omega 50K MWCO	8/pkg
17389491	97058	7 mL, Omega 50K MWCO	2/pkg
17399491	97059	7 mL, Omega 100K MWCO	8/pkg
17309501	97060	7 mL, Omega 100K MWCO	2/pkg

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