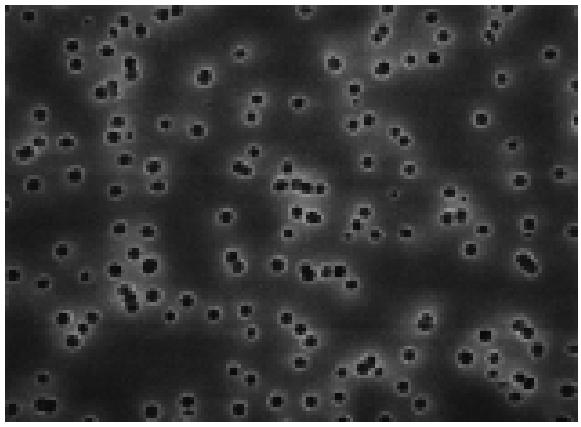
МЕМБРАННЫЕ ФИЛЬТРЫ ISOPORE



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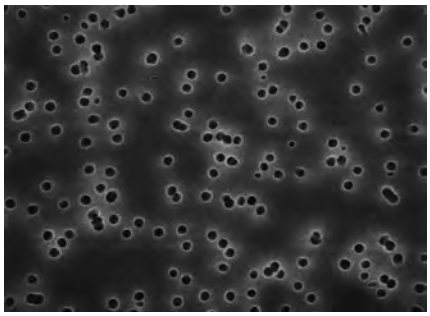
Isopore™ Membrane Filters

Polycarbonate membrane for microscopy and visual analysis



The Isopore™ membrane is a polycarbonate, track-etched screen filter recommended for all analyses in which the sample is viewed on the surface of the membrane. Isopore™ membrane offers distinct advantages for the analysis of airborne contaminants and other particles using optical or electron microscopy. The Isopore™ membrane is composed of polycarbonate film, which has a smooth, glass-like surface for clearer sample observation. The unique manufacturing process of the membrane ensures a precise pore diameter and a consistent pore size for accurate separation of samples by size. Matched-weight filters are not usually required because of low, constant tar and ash weights.

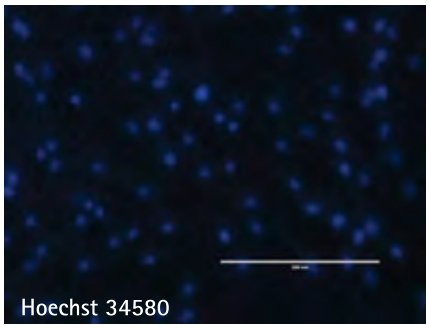
Features & Benefits

- Membrane structure retains particles on the surface, simplifying counting and analysis
- Isopore™ membranes do not stain, resulting in low background interference
- Non-hygroscopic, allowing for rapid drying and reduced sample analysis time
- Translucent material does not require clearing for transmitted light microscopy; also available in brown variety

Applications

Air Monitoring, Epifluorescent Microscopy, Chemotaxis Assays

Product Performance



Low background enables simple, accurate cell counting. NIH 3T3 cells were seeded at 25,000 cells per well of a Millicell® 24-well culture plate with 0.4 µm Isopore™ polycarbonate membrane (Cat. No. PSHT010R5). After two days, cells were fixed with 4% paraformaldehyde, nuclei were stained with Hoechst 34580 and cells counted via fluorescence microscopy. Magnification = 10X.

Specifications

Color	White or brown
Surface	Plain
Wettability	Hydrophilic
Thickness	7-27 µm
Operating Temperature	140 °C maximum
Gravimetric Extractables	<1.0%
Sterilization	Ethylene oxide, gamma irradiation, or autoclave (121 °C at 1 bar)

Detailed Specifications

Applications	Filter Code[1]	Color	Pore Size (µm)	Bubble Point[2] (psi)	Water Flow Rate[3] (mL/min/cm²)	Air Flow Rate[4] (L/min/cm²)
Chemotaxis, bioassays, cytology, air monitoring	VCTP	White	0.1	102	0.5	1.3
Chemotaxis, bioassays, cytology, air monitoring, SEM analysis, sterility testing	GTTP	White	0.2	51	6	3.5
Epifluorescent microscopy, particle monitoring, air monitoring	GTBP	Brown	0.2	51	6	-
Adsorbable organic halides (AOX), air monitoring, particle monitoring	HTTP	White	0.4	22	50	7
Epifluorescent microscopy, particle monitoring, air monitoring	HTBP	Brown	0.4	29	50	-
Reflective light microscopy, SEM analysis, gravimetric analysis, air monitoring	DTTP	White	0.6	8.7	25	8
Reflective light microscopy, SEM analysis, gravimetric analysis, air monitoring, asbestos monitoring	ATTP	White	0.8	8.7	40	14
Chemotaxis, bioassays, cytology, air monitoring	RTTP	White	1.2	8.7	110	19
	TTTP	White	2	4.4	90	23
	TSTP	White	3	0.7	180	49
Parasitology, chemotaxis, bioassays, cytology, air monitoring	TMTP	White	5	-	250	54
Chemotaxis, bioassays, cytology, air monitoring	TETP	White	8	-	250	55
	TCTP	White	10	-	250	72

[1]Corresponds to first 4 digits of catalogue number.

[2]Bubble point tested in water at 20 °C.

[3]Water flow rate tested at 10 psi.

[4]Air flow measured at 10 psi. Values represent typical performance and are not established specifications.

Ordering Information

Pore Size (µm)	Filter Diameter (mm)	Qty/Pk	Catalogue No.
White Membrane Filters			
0.1	13	100	VCTP01300
	25	100	VCTP02500
	47	100	VCTP04700
	142	50	VCTP14250
0.2	13	100	GTTP01300
	25	100	GTTP02500
	37	100	GTTP03700
	47	100	GTTP04700
	90	30	GTTP09030
	142	50	GTTP14250
0.4	13	100	HTTP01300
	25	100	HTTP02500
	37	100	HTTP03700
	47	100	HTTP04700
	90	30	HTTP09030
0.6	13	100	DTTP01300
	25	100	DTTP02500
	47	100	DTTP04700
0.8	13	100	ATTP01300
	25	100	ATTP02500
	37	100	ATTP03700
	47	100	ATTP04700
	142	50	ATTP14250
1.2	13	100	RTTP01300
	25	100	RTTP02500
	47	100	RTTP04700
	142	50	RTTP14250
2.0	25	100	TTTP02500
	47	100	TTTP04700
3.0	13	100	TSTP01300
	25	100	TSTP02500
	47	100	TSTP04700
	142	50	TSTP14250
5.0	13	100	TMTP01300
	25	100	TMTP02500
	47	100	TMTP04700
	90	30	TMTP09030
	142	50	TMTP14250
8.0	13	100	TETP01300
	25	100	TETP02500
	47	100	TETP04700
	142	50	TETP14250
10.0	13	100	TCTP01300
	25	100	TCTP02500
	47	100	TCTP04700
	142	50	TCTP14250
Brown Membrane Filters			
0.2	13	100	GTBP01300
	25	100	GTBP02500
	47	100	GTBP04700
0.4	13	100	HTBP01300
	25	100	HTBP02500
	47	100	HTBP04700

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