

Increased Lab Efficiency

Optimize your workflow process by filtering and incubating your sample all in the same unit! Pre-assembled sterile Microbiological Filtration Monitors eliminate the preparation time traditionally spent on assembly, cleaning and autoclaving filtration units before use in test procedures or before reusing the units between successive filtration series. Monitors are manufactured to the highest standards in the industry and proven to meet or exceed the requirements of established QA/QC standard test methods.



FEATURES

- Sterile, disposable unit eliminates preparation time spent on cleaning and autoclaving
- All in one assembly combines filtration unit and petri dish and helps to minimize contamination
- Preloaded membrane and pad eliminates transfer step and manual manipulation of the membrane
- Built-in magnification lid for colony count
- Reliable, reproducible results unit-to-unit and lot-to-lot

APPLICATIONS

Microbiological analysis of:

Wastewater

Potable water

Beer and wine

Oils, extracts and broths

Dairy products, juices and soft drinks

EPA Update issued February 2013:*

Primary Drinking Water Regulations:

Revision to the Total Coliform Rule

"Disposable membrane filtration equipment that is pre-sterilized by the manufacturer (i.e. disposable funnel units) may be used."



*Federal Register/Vol. 78, No. 30/Wednesday, February 13, 2013/Rules and Regulations

Microbiological Filtration Monitors

Microbiological Monitors are designed specifically for membrane filtration methods used in identifying microorganisms in aqueous samples up to 100 ml.

Microbiological Monitor Workflow Process

Simplify your work flow process with your established methods in these easy steps!

1



Add your sample into the pre-assembled monitor device and filter.

Pre-assembled sterile and disposable unit reduces preparation time and autoclaving expenses while increasing laboratory efficiency.

2



Remove the funnel for easy conversion into petri dish.

Facilitates ease of handling.

I.W. Tremont

APPLICATIONS

Cellulose Nitrate Membranes

Cellulose Nitrate Membranes with a pore size of 0.2 or 0.45 μm and membrane diameter of 47 mm are used for monitoring contaminants in liquid samples from raw materials to finished products. Ideal for microbiological analysis of potable water, wastewater, beverages, pharmaceuticals, cosmetics and colony counting.

Relationship of microbe retention to pore size:

Membranes of 0.2 μm porosity are recommended pore size for testing such strains as *Rickettsia prowaseki*, *Brevundimonas diminuta*, *Pseudomonas diminuta*, *Pseudomonas aeruginosa*, and *Lagionella pneumophila*.

0.45 μm white membranes are tested for Coliforms, Fecal Streptococci *Staphylococcus aureus* and *Serratia marcescens*.

Microbiological Filtration Monitors

3



After filtration is complete, add the appropriate growth media to the preloaded membrane and pad in the remaining petri dish.

4

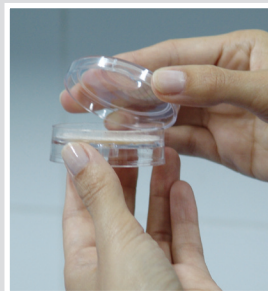


Remove the petri dish from the vacuum manifold, cover the sample with the lid.

Pre-loaded membrane and pad eliminates manual manipulation and transfer step with no risk of trapped air bubbles.

Ready-to-use pre-sterilized filtration unit designed to be attached to vacuum manifold, eliminates the cleaning and sterilization required of reusable funnels and helps to reduce testing time by up to 70%!

RESULT



Ready for incubation.

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TECHNICAL SPECIFICATIONS:

Membrane material: Cellulose Nitrate

Pore sizes: 0.2 μm (sterilizing) or 0.45 μm (clarification)

Membrane diameter: 47 mm **Membrane color:** White **Grid color:** Black

Welded to cup: No

Filtration unit: polypropylene sterilized by gamma irradiation

Microbiological Filtration Monitors

ORDERING INFORMATION

Tremont Cat#	Description
MB-0025	Disposable sterile filtration units, 100 ml; white gridded nitrocellulose membrane filter 0.2 µm, not welded, pack of 50
MB-0027	Disposable sterile filtration units, 100 ml; white gridded nitrocellulose membrane filter 0.45 µm, not welded, pack of 50

Other configurations are available upon special request. Please see our website at www.iwtremont.com for a full product listing.

COMMON COMPETITIVE EQUIVALENTS

Membrane Porosity	Diameter	Tremont Cat#	Company	Catalog#
0.2 µm	47 mm	MB-0025	GE/Whatman (bulk packed)	10 497 511
			Nalgene (no grid, packaging unknown)	145-0020
			Sartorius Biosart® 100	16401-47-07-ACK
0.45 µm	47 mm	MB-0027	GE/Whatman	10 497 501
			PALL MicroChek® II	4761
			Nalgene	145-0045
			Sartorius Biosart® 100	16401-47-06--ACK

PACKAGING

Individually wrapped, sterile product ready to use right out of the package.



Also available is a full line of high-quality, competitively priced sample preparation products for your QA/QC Laboratory.



Filters – glass microfiber, cellulose, and membranes



Extraction Thimbles



Syringe Filters

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Cross reference information is a compilation of the listed manufacturers equivalency charts and sales data, not actual test data.

Although reasonable attempt has been made to ensure equivalency between competitive products-individual testing is suggested for non-standard method applications.

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Technical and Specialty Papers