

# Thermo Scientific Nalgene Analytical Filtration Products



For Reliable and Repeatable Monitoring and Testing of:

- water
- food and beverage
- raw materials
- finished product

# Thermo Scientific Nalgene Disposable Analytical Filters



## Single-use Nalgene® Filterware - ready when you are!

Our analytical filterware provides precise, easy-to-use systems for the recovery of microorganisms and particulates for QC testing and research.

- Disposable, easy-to-use, pre-assembled sterile filter units and funnels
- Easy-to-remove triton-free cellulose nitrate (CN) membranes
- The 0.2  $\mu\text{m}$  CN membrane is suitable for sterility testing
- 0.45  $\mu\text{m}$  CN gridded membrane is certified for water quality testing



## Analytical Filter Units, Sterile

Filter units have wide polystyrene base for added stability on the bench. 150 ml capacity of units and funnels is ideal for beverage samples that may foam. Twist-off upper chamber provides easy access to

47 mm diameter membrane. Upper and lower chambers are graduated for quick volume checks. Easy-to-open bags. 72 units per case.

Cat. No. 130	-4020	-4045
Pore size, $\mu\text{m}$	0.2	0.45
Membrane color/grid	White/none	White/gray



## Analytical Test Filter Funnels, Sterile

Low cost filter funnels feature white or gray CN membrane. Gray membrane turns black when wet. Upper separates easily from lower for convenient access to membrane. Adapter allows use with No.8 stopper (Cat.

No.DS0396-0080) with filtering flask or manifold. 50 funnels and 6 adapters per case. 100 ml or 250 ml volume.

Cat. No.145	-0020	-0045	-2020	-2045
Upper cap., ml	100	100	250	250
Membrane dia., mm	47	47	47	47
Pore size, $\mu\text{m}$	0.2	0.45	0.2	0.45
Membrane color/grid	White/none	White/gray	White/none	White/gray

Cat. No.147	-0045
Funnel cap., ml	100
Membrane dia., mm	47
Pore size, $\mu\text{m}$	0.45
Membrane color/grid	Gray/white



## Analytical Filter Funnels, Sterile

For use with filter flasks or manifolds. 150 ml graduated chamber. Accommodates larger volumes as long as membrane continues to flow. Convenient snap away design with removable membrane. Each pack of 12 filters

contains 1 vacuum gasket (DS0395-0708) to replace a stopper. 72 funnels per case.

Cat. No. 140	-4045
Funnel cap., ml	150
Membrane dia., mm	47
Pore size, $\mu\text{m}$	0.45
Membrane color/grid	White/gray

# Filter Membranes and Accessories

## Nalgene 0.45 µm pore size cellulose nitrate membrane filters have official certification for water quality work.

We certify that the 0.45 µm cellulose nitrate membrane contained in these filterware products has been manufactured for the bacteriological analysis of potable, waste and natural waters in accordance with the membrane filtration procedures referenced in "Standard Methods for the Examination of Water and Wastewater", current edition.

- Filters and ink are nontoxic, free of bacterial growth inhibiting or stimulating substances
- Membranes wet uniformly within 15 seconds with no dry spots when floated on reagent grade water
- Filter diameter is 47 mm; mean pore diameter is 0.45 µm
- Membrane flow is 55 ml/min/cm<sup>2</sup> at 25°C, differential pressure of 93kPa

- pH of filtrate: ≤ 7.5
- Recovery using *Escherichia coli* met or exceeded 90% in comparison to a pour plate

Thermo Scientific Products covered:

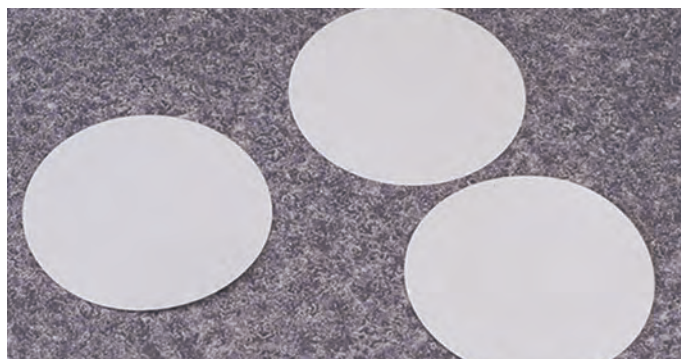
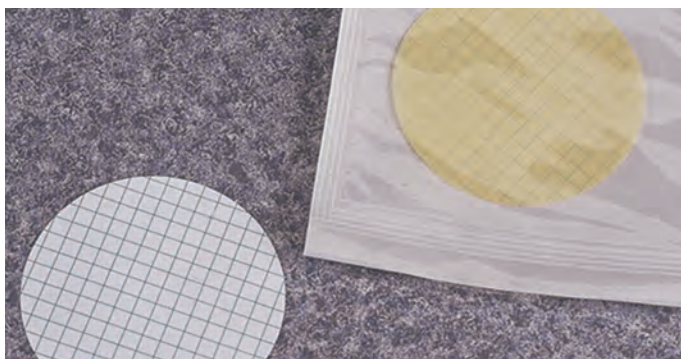
Nalgene cellulose nitrate membrane filters, Cat. No. DS0200-4045

Nalgene analytical filter units, Cat. No. 130-4045

Nalgene analytical filter units, Cat. No. 140-4045

Nalgene water quality membrane, Cat. No. DS0205-4045

Nalgene analytical filter funnels, Cat. No. 145-0045, -2045



### Water Quality Membrane Filter, Sterile CN

Sterile, economical cellulose nitrate membrane contains no extractables that will inhibit or stimulate growth of bacteria, and does not affect pH of the medium. Meets EPA and APHA standards for water quality work. 47 mm diameter, 0.45 µm pore size, white, with green grid. Individually wrapped, 100 units per case.

Cat. No. DS0205	-4045
Pore size, µm	0.45

### Membrane Filters, Non-sterile, CA

Filter of choice for cold sterilization of proteinaceous solutions. Low adsorption of proteins from serum or culture media so filtration is more efficient. Cellulose acetate has excellent thermal properties and is autoclavable to 125°C (must be wet when autoclaved). Has superior chemical resistance to alcohol and oil; can even be used in short-term contact with methyl ethyl ketone. Suited for liquid scintillation studies. Can be cleared for direct observation using paraffin or almond oil. 100 units per case.

Cat. No. DS0210	-4020	-4045
Membrane Diameter, mm	47	47
Pore Size, µm	0.2	0.45
Membrane Color	White	White

### Membrane Filters, Non-sterile CN

Cellulose nitrate offers superior recovery of microorganisms in water quality work, sterility testing, food and beverage analysis. White 47 mm diameter membrane comes in two pore sizes: 0.2 µm is plain white, 0.45 µm is white with green grid. 100 units per case.

Cat. No. DS0200	-4020	-4045
Pore size, µm	0.2	0.45
Color	White	White w/green grid

### Membrane Filters, Non-sterile, Nylon

Material of choice of both aqueous and organic solvent filtrations where reduced contamination is important. Inherently hydrophilic; extremely low level of extractables; contain no wetting agent. Less brittle and easier to handle than cellulose. Useful for sterilization and clarification of buffers and culture media. Ideal for use with HPLC solvents and ultracleaning solutions for electronics laboratories. 100 units per case.

Cat. No. DS0215	-4020	-4045
Membrane Diameter, mm	47	47
Pore Size, µm	0.2	0.45
Membrane Color	White	White

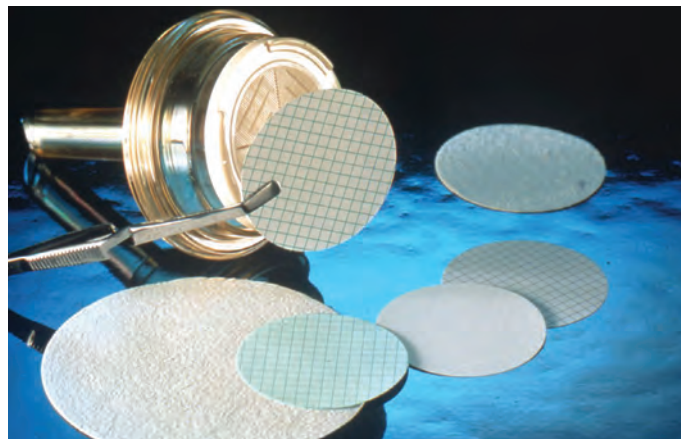




### Prefilters, Non-sterile glass-fiber

Thin, non-sterile. Available in three sizes for use with 50, 75 and 90 mm diameter membrane filters. Use with Nalgene disposable filter units. The 75 mm size is included in cases of Nalgene 500 and 1000 ml nylon membrane and surfactant-free cellulose acetate membrane filter units. 100 units per case.

Cat. No. DS0281	-5000	-7500	-9000
Prefilter Diameter, mm	50	75	90



### Filter Forceps

Durable stainless steel forceps are available in bent-tip and straight-tip designs. Bent-tip design cross-action holds membrane without constant pressure, minimizes damage. 1 unit per case.

Cat. No. DS0399	-0001	-0002
Style	Bent Tip	Straight Tip



### Filter Funnel Adapter, Non-sterile

Polypropylene funnel adapter for use with Cat. No. 145- and 147- series filters, packed 25 per case.

Cat. No. DS0397	-0010
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### Vacuum Gasket, Non-sterile thermoplastic elastomer

Use with any filtering flask that requires a No. 7 or No. 8 stopper. Slides quickly and easily in and out of gasket without jamming. 6 per case.

Cat. No. DS0395	-0708
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### Filter Stopper, Non-sterile, No. 8 rubber

Use with Cat. Nos. 145- and 147- analytical test filter funnels and filter funnel with clamp. 3 per case.

Cat. No. DS0396	-0080
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### Vacuum Manifold

Stainless steel manifold with Teflon® (PTFE) stopcock features three vacuum outlets, leakproof two-way valves and vent port. Barbed fitting accepts 3/8 in. (9.5 mm) I.D. tubing. Use with Nalgene filter funnel with clamp or analytical test filter funnels. 1 per case.

Cat. No. DS0345	-0001
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# Thermo Scientific Nalgene Reusable Filter Holders and Funnels



## Filter Holders with Receiver

Upper chambers and receivers are graduated. Includes two membrane support plates: a clear, one-piece plate for sterilization and a two-piece white plate for analysis. Accepts 47 or 50 mm diameter membranes. Two side-arms allow connection to vacuum line. Tubing adapters accept 1/4- to 5/16-inch (6 to 8 mm) I.D. vacuum tubing. 4 units per case.



Cat. No. 300	-4000	-4050	-4100
Capacity, upper chamber, ml	250	500	500
Capacity, receiver, ml	250	500	1000

## Nalgene Reusable Filterware - reduces waste!

- Replaces metal or breakable glass – major components are made of durable, transparent, autoclavable polysulfone
- Use for sterilization or analysis – filter holders come with sterilization and analytical membrane support plates
- Versatile – designed to be used with vacuum or pressure
- Graduated chambers for easy reference



## Filter Holders with Funnel

For use with any filtering flask or vacuum manifold that accepts a rubber stopper with hole. Comes with easy-to-use, no-twist vacuum gasket; sterilization and analysis support plates. Accepts 47 or 50 mm diameter membranes. 1 unit per case.

Cat. No. DS0310	-4000	-4050
Capacity, upper chamber, ml	250	500
Height, incl. cover ports, mm	190	214



## Filter Funnels with Clamp

Filter funnel with copolymer cover, TPE caps and silicone gasket has similar design as glass funnels. Graduated in 25 ml increments from 100 to 250 ml. Support plate holds 47 mm diameter membrane; cover has three ports with friction-fit caps. No leakage between upper chamber and lower funnel, even after autoclaving. Spring-loaded clamp holds funnel and stem together. For use with filtering flasks or manifolds. 1 unit per case.

Cat. No. DS0315	-0047
Capacity, ml	250

## Reusable Bottle Top Filters

Convenient, economical bottle top filters screw securely onto glass or plastic media bottles with 33 mm or 45 mm neck sizes. Removable sterilization membrane support plate provides maximum flow rate and throughput. Accepts 47 or 50 mm diameter membranes. Vacuum port on lower half of assembly. Molded-in graduations. 1 unit per case.



Cat. No. DS0320	-2545	-5033	-5045
Capacity, upper chamber, ml	250	500	500
Fits bottle neck size, mm	45	33	45

Replacement parts are available.

# Microbiology Products for Membrane Filtration



## QC Organisms and Media from Thermo Scientific Remel and Oxoid



### Water Testing Media

Water tests are used for controlling the microbial quality of water, purified water, and water for injection. Methods for testing water are found in standard methods such as those for the Examination of Water and Wastewater by the American Public Health Association. Numerous media are used in water testing including Buffered Peptone Water, Bile Esculin Agar w/ and w/o Azide, Brilliant Green Bile Broth w/ and w/o MUG, LST Broth w/ and w/o MUG, m ENDO Agar LES, m ENDO Broth MF, m Enterococcus Agar, Peptone 0.1%, Standard Methods Agar, Presence-Absence Broth, and R2A Agar to determine the quality of the water.

### Quality Control Testing Organisms

Stringent quality control ensures reproducible test results and consistent microbiological evaluation of pharmaceuticals and personal care products. Our unique quality control products provide a wide range of ATCC® organisms in easy-to-use formats to meet your quality control procedures.

For more information, go to [www.remel.com](http://www.remel.com) or [www.oxoid.com](http://www.oxoid.com).

## Thermo Scientific Incubators for Microbiology



### Thermo Scientific Heratherm Microbiological Incubators

Successful incubation depends upon the environmental conditions. As such, you need to trust that your valuable samples are maintained in a safe and efficient manner. Thermo Scientific Heratherm microbiological incubators are designed to provide long-term performance, with optimal conditions.

- 3 models dependent on application: General Protocol, Advanced Protocol, Advanced Protocol Security
- 3 Convenient sizes: 60L, 100L, 180L
- Choice of Convection control type: Gravity or Dual control (new Dual control technology allows the operator to choose the fan speed)
- Large, easy to read display
- Easy to clean interior with rounded corners
- Certified 140°C decontamination cycle (Advanced Protocol Security units only)
- 2 Year parts and labor warranty
- cCSAus approved (120V models) / CE marked (230V models)

For more information, go to [www.thermoscientific.com/incubators](http://www.thermoscientific.com/incubators).

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