

MICROBIOLOGY QC PRODUCTS

For reliable test results
that ensure effective
product quality
monitoring

Pall Laboratory high-performance membranes, filter funnels, manifolds, pumps, accessories and **environmental filters & shakers** are designed for simple operation, ease-of-analysis, and reduced contamination risk to produce reliable test results.

→ Sentino Dispensers,
Pumps & Filter Funnels

→ Single-Use
Filter Funnels

→ Reusable
Filter Funnels

→ Filter Funnel
Membranes

→ Laboratory
Manifold

→ Ampoule Broths,
Petri Dishes, Accessories



PRODUCT CATALOG

Meet our high-performance
Microbiology QC product line:



**Single-Use Filter
Funnels**

Learn More >



**Sentino® Dispensers,
Pumps & Filter Funnels**

Learn More >



Laboratory Manifold

Learn More >



**Reusable Filter
Funnels**

Learn More >



**Filter Funnel
Membranes**

Learn More >



**Ampoule Broths, Petri
Dishes, Accessories**

Learn More >



**Environmental Water
Filters & Shakers**

Learn More >



MICROFUNNEL™ AND MICROCHECK® FILTER FUNNELS

Single-use filter funnels for
a range of microbiology
applications

Full Product List
and Specifications

Superior Design

Easy squeeze removal of funnel top reduces risk of repetitive stress injury (RSI). Details such as volume graduations molded on the outside of the funnel to reduce sample loss and potential false negative results.

Single Use

Individually bagged and gamma irradiated means no need for cleaning and sterilizing prior to use, with no chance for cross contamination.

GLP Compliance

Each lot QC tested and certified, with certificates available on-line. Individually labeled packaging eases documentation needs and +/-2% accuracy at the maximum volumes enables compliance with applicable requirements.

Available with Polycarbonate Membrane

Flat, smooth surface provides easy elution of organisms or particulate for further analysis.



MicroFunnel Plus Filter Funnels

Options include Supor® membrane compatible with hot water loops up to 90° C and sample cup holder for safe operation. Combines standard MicroFunnel filter funnel features with a filter funnel and sample cup in a semi-closed system to reduce contamination during in-line sampling and transport.

MicroFunnel ST Filter Funnels

ST second packaging layer requires only one wipe down to transfer multiple filter funnels when processed in cleanrooms or hoods. The overpack layer reduces gross particulate contamination that can come from cardboard.

MicroCheck Filter Funnels

Disposable Microcheck filter funnel is specifically designed for beverage microbial analysis, including integrated petri dish. Easy-to-use filter funnel is ideal for ingredient or final product testing for microbial contamination prior to release.

PRODUCT CATALOG

- ▶ **Single-Use Filter Funnels**
- Sentino® Dispensers/Pumps**
- Laboratory Manifold**
- Reusable Filter Funnels**
- Filter Funnel Membranes**
- Ampoule Broths/Petri Dishes/Accessories**
- Environmental Filters/Shakers**

APPLICATIONS

General Microbial Testing

For aqueous fluids used in pharmaceutical production and water system monitoring. Check for a variety of contaminants such as total coliforms or *pseudomonas*.

Bioburden Testing

Prior to sterilization for confirmation that microbial load is not above expected and validated quantities.

Sterility Testing

To confirm sterility where no more than 1 sample in 1 million contain microbial activity.

MICROFUNNEL™ AND MICROCHECK® FILTER FUNNELS

Ordering information and specifications



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100 ML WITH LID KIT

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
4810	28143-540	516-8965	0.45 µm GN-6 white gridded membrane, individually bagged, gamma irradiated	50/pkg

DIMENSIONS AND WEIGHT*

HEIGHT	DIAMETER	OUTLET
With lid kit: 8.1 cm (3.2 in) Without lid kit: 7.6 cm (3.0 in)	With lid kit: 6.4 cm (2.5 in) Without lid kit: 6.1 cm (2.4 in)	Fits MicroFunnel adapters

OTHER SPECIFICATIONS

CAPACITY	PORE SIZE	COLOR	EFFECTIVE FILTRATION AREA	OPERATING AND MAX SAMPLE COLLECTION TEMP	CLEANING AND STERILIZATION
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm²	N/A	Gamma irradiated at validated dose of 15 - 30 kGy

*100 mL funnels (40 units total per box): 10 individually bagged funnels within an overpack bag, 4 overpack bags per box.

MICROFUNNEL™ AND MICROCHECK® FILTER FUNNELS

Ordering information and specifications



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100 ML PLUS, INCLUDING ASCEPTIC PORT OPTION (AP)

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
4807	28143-570	516-8964	0.45 µm GN-6 white gridded membrane, individually bagged, gamma irradiated	50/pkg
4809	28143-582	516-9891	0.2 µm Supor white gridded membrane, individually bagged, gamma irradiated	50/pkg
4823	28143-588	515-0055	0.45 µm Supor white gridded membrane, individually bagged, gamma irradiated	50/pkg
4808	28143-580	516-9890	0.45 µm MetriceL black gridded membrane, individually bagged, gamma irradiated	50/pkg
4844	82028-612	515-0157	0.45 µm Supor white gridded membrane, individually bagged, gamma irradiated, with aseptic port	50/pkg

DIMENSIONS AND WEIGHT*

HEIGHT	DIAMETER	OUTLET
With cover: 7.6 cm (3.0 in) Without cover: 7.3 cm (2.9 in)	With cover: 6.1 cm (2.4 in) Without cover: 5.7 cm (2.3 in)	Fits MicroFunnel adapters
With cover: 7.6 cm (3.0 in) Without cover: 7.3 cm (2.9 in)	With cover: 6.1 cm (2.4 in) Without cover: 5.7 cm (2.3 in)	Fits MicroFunnel adapters
With cover: 7.6 cm (3.0 in) Without cover: 7.3 cm (2.9 in)	With cover: 6.1 cm (2.4 in) Without cover: 5.7 cm (2.3 in)	Fits MicroFunnel adapters
With cover: 7.6 cm (3.0 in) Without cover: 7.3 cm (2.9 in)	With cover: 6.1 cm (2.4 in) Without cover: 5.7 cm (2.3 in)	Fits MicroFunnel adapters
With cover: 8.7 cm (3.4 in) Without cover: 7.3 cm (2.9 in)	With cover: 6.1 cm (2.4 in) Without cover: 5.7 cm (2.3 in)	Fits MicroFunnel adapters

OTHER SPECIFICATIONS

CAPACITY	PORE SIZE	COLOR	EFFECTIVE FILTRATION AREA	OPERATING AND MAX SAMPLE COLLECTION TEMP	CLEANING AND STERILIZATION
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm²	74 °C (165 °F)	Gamma irradiated at validated dose of 15 - 30 kGy
100 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm²	90 °C (194 °F)	Gamma irradiated at validated dose of 15 - 30 kGy
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm²	90 °C (194 °F)	Gamma irradiated at validated dose of 15 - 30 kGy
100 mL	0.45 µm	Membrane: black with white grid Funnel: translucent colorless	13.46 cm²	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm²	90 °C (194 °F)	Gamma irradiated at validated dose of 15 - 30 kGy

*100 mL funnels (40 units total per box): 10 individually bagged funnels within an overpack bag, 4 overpack bags per box.

MICROFUNNEL™ AND MICROCHECK® FILTER FUNNELS

Ordering information and specifications



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ACCESSORIES

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
4824	83008-128	515-0135	MicroFunnel Plus 100 mL filter funnel holder for hot water applications	1/pkg
4825	83008-130	515-0136	MicroFunnel Plus 300 mL filter funnel holder for hot water applications	1/pkg
4701	28143-322	516-7706	MicroFunnel filter funnel #8 stopper adapter	3/pkg
4895	97058-852	515-0172	Culture-in-Place lid kit for 100 mL MicroFunnel filter funnels (lid, base plug), gamma irradiated	20/pkg

DIMENSIONS AND WEIGHT*

HEIGHT	DIAMETER	OUTLET
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

OTHER SPECIFICATIONS

CAPACITY	PORE SIZE	COLOR	EFFECTIVE FILTRATION AREA	MAX SAMPLE COLLECTION TEMP	CLEANING AND STERILIZATION
100 mL	N/A	Black	N/A	N/A	N/A
300 mL	N/A	Black	N/A	N/A	N/A
N/A	N/A	Black	N/A	N/A	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
100 mL	N/A	Transparent colorless	N/A	N/A	Gamma irradiated at validated dose of 15 - 30 kGy

*100 mL funnels (40 units total per box): 10 individually bagged funnels within an overpack bag, 4 overpack bags per box.

** Actual number of autoclave cycles will depend upon application and use

SENTINO® DISPENSERS, PUMPS AND FILTER FUNNELS

Maximize workspace and
minimize contamination risk



Full Product List
and Specifications

PRODUCT CATALOG

Single-Use Filter Funnels

▶ Sentino® Dispensers/Pumps

Laboratory Manifold

Reusable Filter Funnels

Filter Funnel Membranes

Ampoule Broths/Petri Dishes/
Accessories

Environmental Filters/Shakers

The Sentino system's compact, portable design frees valuable bench top space and its disposable fluid path and optional single-use filter funnels limit biofilm build up and contamination.

Process Simplicity

The Sentino pump eliminates the need for separate manifold, pump, and excess tubing. Small, portable equipment is easy to bring to in-field sampling locations and designed to work together seamlessly.

Single-Use Options

Our disposable Sentino pump fluid path, combined with the gamma-irradiated Sentino Filter Funnel option, virtually eliminates the risk of cross contamination from test equipment.

Filter Funnel Flexibility

Available fluid path adapters include options compatible with Pall's Sentino filter funnels, all magnetic filter funnels, and MicroFunnel™ filter funnels, giving the freedom to use the appropriate validated methods.



Sentino Pump and Dispenser

Compact footprints and portable design with battery operation option frees valuable bench space. Peristaltic pump action sends filtrate to waste collection, while our dispenser guide plates reduce jarring and neatly wind packaging onto spools for easy disposal.



Sentino Membranes

200-pack membrane packaging requires less frequent loading, and includes two extra membranes for dispenser set-up. Visual indicator alerts when membrane is running low.



Sentino Filter Funnels

Unique magnetic funnel design enables efficient membrane removal, and no-leak magnetic seals allow one-handed operation. Available disposable, gamma-irradiated filter funnel options offer single-use convenience.

APPLICATIONS

Limited Bench Space

Whether working under a hood or with limited space, the small footprints and low profile of Sentino products make them ideal for laboratories working with laminar flow hoods or minimal bench areas.

In-Field Options

Some applications such as environmental water testing may require in-field or other remote sample processing. With its battery operation design and easy portability, the Sentino pump and dispenser are ideally designed for this specialized need.

Last-Minute Testing

It can be frustrating to find a contaminated sample late in the day after your manifold has been cleaned, packaged, and sterilized for the next day's use. It's single-sample design, and disposable fluid path and filter funnel options, make the Sentino pump the perfect choice to run any last-minute samples, saving the time to re-clean and re-sterilize your manifold.

SENTINO® DISPENSERS, PUMPS AND FILTER FUNNELS

Ordering information and specifications



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DISPENSER AND MEMBRANES

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
13184	10147-394	516-0665	Sentino Z-pack membrane dispenser	1/pkg
68121	30617-198	514-0628	0.45 µm 47 mm GN-6 white gridded membrane, z-pack, gamma irradiated	1000/pkg (5 boxes of 200)
68123	30617-200	514-0629	0.2 µm 47 mm Supor white gridded membrane, z-pack, gamma irradiated	1000/pkg (5 boxes of 200)
68124	30617-202	514-0630	0.45 µm 47 mm MetriceI black gridded membrane, z-pack, gamma irradiated	1000/pkg (5 boxes of 200)
68125	30617-204	514-0631	0.8 µm 47 mm MetriceI black gridded membrane, z-pack, gamma irradiated	1000/pkg (5 boxes of 200)

DIMENSIONS AND WEIGHT

HEIGHT	DIAMETER / WIDTH / OD	LENGTH	WEIGHT	OUTLET
20.0 cm (7.9 in)	12.0 cm (4.7 in)	22.0 cm (7.9 in)	0.9 kg (2.0 lbs)	N/A
N/A	47 mm	N/A	N/A	N/A
N/A	47 mm	N/A	N/A	N/A
N/A	47 mm	N/A	N/A	N/A
N/A	47 mm	N/A	N/A	N/A

OTHER SPECIFICATIONS

OPERATION TEMP RANGE	POWER	CLEANING AND STERILIZATION
15-30 °C (59-86 °F)	24 V DC, 1.6 Amp, 100-240 V AC47-63 Hz 12 V NiMH battery IEC 320 3-pin socket input 2.5 mm barrel jack output IEC 320 connector and NEMA 5-15P grounded plug, IEC 320 connector and European CEE 7/7 plug, IEC 320 connector and UK BS1363 plug	Consult user instructions
74 °C 165 °F	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
100 °C (212 °F)	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
N/A	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
N/A	N/A	Gamma irradiated at validated dose of 15 - 30 kGy

LABORATORY MANIFOLD

Filtration flexibility crafted
in stainless steel



Full Product List
and Specifications

PRODUCT CATALOG

- Single-Use Filter Funnels
- Sentino® Dispensers/Pumps
- ▶ Laboratory Manifold
- Reusable Filter Funnels
- Filter Funnel Membranes
- Ampoule Broths/Petri Dishes/Accessories
- Environmental Filters/Shakers

Control Contamination

Designed in stainless steel with few pieces to disassemble and reassemble for easy cleaning, no o-rings in the fluid path for a lowered contamination risk and a lowered hose outlet means no back-burping that can require expensive and time-consuming retesting.

Flexibility in Stainless Steel

Easy right- or left-handed set up with interchangeable end cap and hose barb ensure you are never reaching over the top of a funnel to turn valves on and off. Available adapters for MicroFunnel filter funnels and Sentino filter funnels, plus standard and elongated tulips for use with #8 stoppers.

Double Capacity

Our coupler enables combining two 3-place manifolds for 6-place capacity that can still fit in a standard lab autoclave.



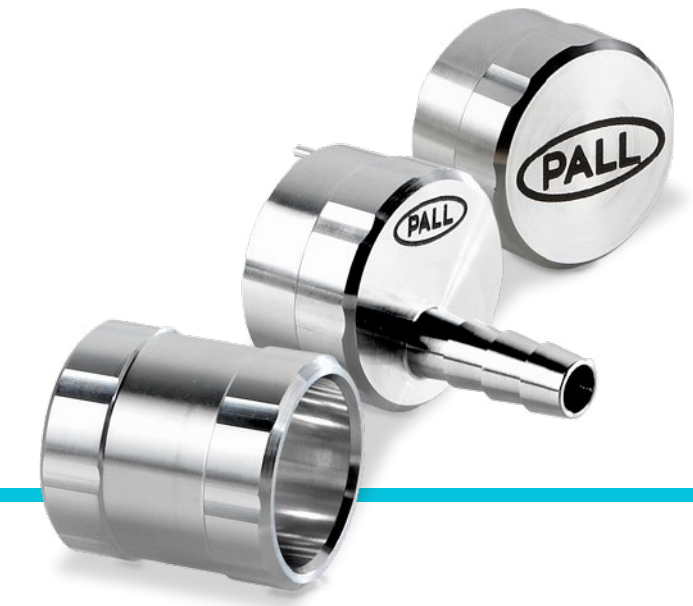
Pall Laboratory Manifold

Unique design limits a lot of headaches typical of other manifolds such as places for contamination to hide, difficult cleaning and incompatibility with autoclaving, resulting in a worry-free option for processing up to 6 samples at one time.



Funnel Adapters

Four adapters to meet any application need including use with standard magnetic funnels, Sentino filter funnels, or any MicroFunnel™ filter funnel.



Accessories

Add our coupler for increased capacity, combining two manifolds into one. Available replacement valves, hose barbs in two sizes, and end caps for those lost pieces save money by replacing only what you need.

APPLICATIONS

Bioburden or Sterility Testing in Pharmaceuticals

Determine number of viable microorganisms to assure product safety

Spoilage Detection in Food and Beverages

Detect spoilage microorganisms to keep contaminated food and beverage products from reaching the market

Drinking Water Testing

Monitor potable water for compliance with standards using Membrane Filtration Technique

LABORATORY MANIFOLD

Ordering information and specifications



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MANIFOLD

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
4889	75981-548	516-1038	3 Place 316 Stainless Steel Manifold including 3 valves, 1 end cap, 1 hose barb cap	1 set/pkg
4890	75981-550	516-1039	Microfunnel filter funnel adapter	3/pkg
4891	75981-552	516-1040	Sentino funnel adapter	3/pkg
4892	75981-554	516-1041	Standard adapter	3/pkg
4959	75981-560	516-1044	Elongated standard adapter	3/pkg
4893	75981-556	516-1042	Coupling device	1/pkg

DIMENSIONS AND WEIGHT

LENGTH	WIDTH	HEIGHT	WEIGHT
3-place: 437.1 mm (17.2 in) 6-place: 846.0 mm (33.3 in)	152.4 mm (6.0 in)	99 mm (3.9 in)	3-place: 1.7 kg (3.76 lb) 6-place: 3.5 kg (7.72 lb)
N/A	53 mm (2.1 in)	35 mm (1.4 in)	213 g (0.5 lb)
N/A	60 mm (2.4 in)	29 mm (1.1 in)	172 g (0.4 lb)
N/A	44 mm (1.7 in)	45 mm (1.8 in)	116 g (0.3 lb)
N/A	44 mm (1.7 in)	87 mm (3.4 in)	168 g (0.4 lb)
34 mm (1.3 in)	31 mm (1.2 in)	N/A	70 g (0.2 lb)

OTHER SPECIFICATIONS

CLEANING AND STERILIZATION
Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min

* Actual number of autoclave cycles will depend upon application and use

LABORATORY MANIFOLD

Ordering information and specifications



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MANIFOLD ACCESSORIES AND REPLACEMENT PARTS

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
4878	75981-546	516-1037	Spare O-ring kit	1 set/pkg
4894	75981-558	516-1043	Manifold valves	1/pkg
4887	76449-912	516-1042	5/16" ID-comparable hose barb end cap*	1/pkg
4967	76449-916	516-1042	3/8" ID-compatible hose barb end cap*	1/pkg
4899	76449-914	516-1042	Standard end cap	1/pkg

DIMENSIONS AND WEIGHT

LENGTH	WIDTH	HEIGHT	WEIGHT
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

OTHER SPECIFICATIONS

CLEANING AND STERILIZATION
N/A
Withstands multiple autoclavings** at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings** at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings** at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
Withstands multiple autoclavings** at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min

*Tubing must be vacuum rated

**Actual number of autoclave cycles will depend upon application and use

REUSABLE FILTER FUNNELS

High-performance magnetic and stainless steel filter funnels for the ultimate application flexibility



Full Product List and Specifications

PRODUCT CATALOG

Single-Use Filter Funnels

Sentino® Dispensers/Pumps

Laboratory Manifold

▶ Reusable Filter Funnels

Filter Funnel Membranes

Ampoule Broths/Petri Dishes/Accessories

Environmental Filters/Shakers

Easy-to-Use Options

All funnels are designed for easy membrane access and no clips, twisting or other extra parts are needed to secure the funnels to the base. Wide range of funnel materials for any application.

Economical Choice

Clean and sterilize over and over using disposable membranes, saving money and providing a more eco-friendly option.

Accurate Sample Measurement

Graduated at 50 mL increments for high visibility with +/-2% accuracy at maximum volume.



Magnetic Filter Funnels

Unique magnetic seal allows one-handed removal of funnel top to access membrane. Polyphenyl-sulfone construction adds durability and safety. Forceps access point for easy filter retrieval.



Stainless Steel Filter Funnels

Designed for vacuum filtration to collect biological or particulate matter from liquids. Superior chemical resistance for harsh applications. Funnel's weight seals filter to base.



Sentino Magnetic Filter Funnels

All the same great features as our standard magnetic funnel designed to fit on our Sentino pump with a shorter stem. Sentino 47 mm magnetic filter funnel option available.

APPLICATIONS

Waste Reduction and Cost Savings

Re-usable funnels prevent excess waste, while also providing an economical option over single-use alternatives.

Water and Effluent Testing

Use our standard or Sentino magnetic filter funnel and the Membrane Filter Technique to test drinking water, surface and plant water or municipal effluent.

Harsh Chemicals

Our stainless steel filter funnels are designed for applications requiring superior chemical resistance. Works with standard manifold systems or vacuum flasks.

FILTER FUNNEL MEMBRANES

Certified membranes for high-performance microbiological analysis



Full Product List and Specifications

PRODUCT CATALOG

- Single-Use Filter Funnels
- Sentino® Dispensers/Pumps
- Laboratory Manifold
- Reusable Filter Funnels
- ▶ Filter Funnel Membranes
- Ampoule Broths/Petri Dishes/Accessories
- Environmental Filters/Shakers

Flexibility of Choice

From high-performance Supor® membrane with its exceptional flow and retention rates to GN-6 mixed cellulose esters to meet most regulatory application needs, including a variety of package sizes with sterile S-packs and non-sterile options.

Ensure Accurate Analysis

Unique dot grid pattern provides guidance for bacterial colony quantification without growth inhibition or enhancement. No expensive and time consuming recounts or retests needed.

Certified for Use

Each lot is QC tested to assure reliable results, with certificates available online.



GN-6 Membrane

Certified 0.45 µm membrane is designed for microbiological analysis with the MF Technique. Mixed cellulose esters provide maximum organism recovery that meets regulatory guidelines.



Metrical® Black PES Membrane

Membrane's dark background provides excellent contrast for counting light-colored or opaque colonies. Sharp contrast between membrane and white grid lines ensures accuracy while viewing and counting.



Supor® PES Membrane

Highly retentive, certified membrane for isolation and enumeration of organisms. Superior flow rates reduce filtration time and assure high throughput. Low protein binding and chemical compatibility permit use in any application. 0.2 µm and 0.45 µm options enable filtration of smaller organisms.

APPLICATIONS

Pharmaceutical, Water, Food & Beverage

Widely-accepted mixed cellulose esters, like our GN-6, are ideal for microbiological analysis in pharmaceutical, food and beverage, and other regulatory guidelines. Certified for microbiological analysis of potable, waste, process, and natural waters using MF Technique. Ideal for isolation and enumeration of total and fecal coliforms, *E. coli*, *Fecal Streptococcus*, and fungi.

Colonies Light in Color

Our Metrical Black PES membrane is designed for sterile filtration and clarification applications such as isolation and enumeration of yeast and mold colonies, plus spoilage organism monitoring and identification in food and beverage QC labs.

High Performance Required

Superior flow rate and retention performance makes Supor membranes ideal where traditional cellulose ester membranes fail with a 0.2 µm pore size. Certified for microbiological examination of water and wastewater. Ideal for labs requiring enumeration of organisms stunted in size from exposure to harsh conditions. Easily isolates *Pseudomonas* species, especially stressed organisms.

FILTER FUNNEL MEMBRANES

Ordering information and specifications



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GN-6

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
63068	28148-562	514-4178	0.45 µm 25 mm GN-6 white ungridded membrane, bulk pack	100/pkg
64191	28148-675	514-4181	0.45 µm 25 mm GN-6 white gridded membrane, bulk pack	100/pkg
64382	28148-530	514-4182	0.45 µm 37 mm GN-6 white ungridded membrane, bulk pack, with support pad	100/pkg
66265	28148-399	516-7888	0.45 µm 47 mm GN-6 white ungridded membrane, individually sealed, gamma irradiated	200/pkg
66278	28148-926	514-4202	0.45 µm 47 mm GN-6 white gridded membrane, individually sealed, gamma irradiated	200/pkg
66068	28148-813	514-4185	0.45 µm 47mm GN-6 white gridded membrane, individually sealed, gamma irradiated	1000/pkg (5 boxes of 200)
66191	28148-815	514-4193	0.45 µm 47 mm GN-6 white gridded membrane, individually sealed, gamma irradiated	2000/pkg (10 boxes of 200)
63020	28148-642	514-4175	0.45 µm 47 mm GN-6 white gridded membrane, bulk pack	100/pkg
63069	28148-584	514-4179	0.45 µm 47 mm GN-6 white ungridded membrane, bulk pack	100/pkg
66539	28143-326	516-7927	0.45 µm 50 mm GN-6 white gridded membrane, individually sealed, gamma irradiated	200/pkg
60016	87003-868	516-7728	0.45 µm 85 mm GN-6 white gridded membrane, bulk pack, gamma irradiated	50/pkg

DIMENSIONS AND WEIGHT

HEIGHT / THICKNESS	DIAMETER / WIDTH
152 µm (6 mils)	25 mm
152 µm (6 mils)	25 mm
152 µm (6 mils)	37 mm
152 µm (6 mils)	47 mm
152 µm (6 mils)	47 mm
152 µm (6 mils)	47 mm
152 µm (6 mils)	47 mm
152 µm (6 mils)	47 mm
152 µm (6 mils)	47 mm
152 µm (6 mils)	50 mm
152 µm (6 mils)	85 mm

OTHER SPECIFICATIONS

PORE SIZE	COLOR	TYPICAL WATER FLOW RATE	MAX OPERATING TEMP	EXTRACTABLES - BOILING WATER	MIN BUBBLE POINT (WATER)	RECOVERY	REFRACTIVE INDEX	CLEANING AND STERILIZATION
0.45 µm	white	> 65 mL/min/cm2at 0.7 bar (70 kPa, 10 psi)	74 °C (165 °F)	<2%	1.8 bar (180 kPa, 26 psi)	>90% E.coli (measured vs control)	1.512	Autoclave if desired at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
0.45 µm	white with black grid	> 65 mL/min/cm2at 0.7 bar (70 kPa, 10 psi)	74 °C (165 °F)	<2%	1.8 bar (180 kPa, 26 psi)	>90% E.coli (measured vs control)	1.512	Autoclave if desired at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
0.45 µm	white	> 65 mL/min/cm2at 0.7 bar (70 kPa, 10 psi)	74 °C (165 °F)	<2%	1.8 bar (180 kPa, 26 psi)	>90% E.coli (measured vs control)	1.512	Autoclave if desired at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
0.45 um	white	> 65 mL/min/cm2at 0.7 bar (70 kPa, 10 psi)	74 °C (165 °F)	<2%	1.8 bar (180 kPa, 26 psi)	>90% E.coli (measured vs control)	1.512	Gamma irradiated at validated dose of 15 - 30 kGy
0.45 um	white with black grid	> 65 mL/min/cm2at 0.7 bar (70 kPa, 10 psi)	74 °C (165 °F)	<2%	1.8 bar (180 kPa, 26 psi)	>90% E.coli (measured vs control)	1.512	Gamma irradiated at validated dose of 15 - 30 kGy
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AMPOULE BROTHS, PETRI DISHES & ACCESSORIES

Everything you need to
grow and manage your
microbial colonies



**Full Product List
and Specifications**

PRODUCT CATALOG

Single-Use Filter Funnels

Sentino® Dispensers/Pumps

Laboratory Manifold

Reusable Filter Funnels

Filter Funnel Membranes

▶ **Ampoule Broths/Petri Dishes/
Accessories**

Environmental Filters/Shakers

Everything You Need

From petri dishes to fit a standard 47 mm membrane to autoclavable forceps, we have everything you need to process microbial samples.



Broth Media

Wide variety of sterile ampoule media premixed, premeasured, and sterilized for maximum efficiency and time savings. Meets Membrane Filter (MF) Technique requirements with 2 mL ampoules. Wide-mouth ampoules available for easier pouring. Choose from plastic or glass options.

Ready-to-Use

Absorbant pads and petri dishes provided gamma-irradiated and sterile, plus pre-packaged, single-use media, mean no potential for contamination found with traditional in-house media formulation.



Petri Dishes and Absorbent Pads

Size-compatible dishes come with or without absorbent pads. Bulk packaging offers exceptional value. Absorbent pads, available both non-sterile and gamma irradiated in dispenser packs of 100, are also available separately with a patented-design dispenser for one-handed removal.

All Backed by Pall

Whether you need scientific expertise, tips, and tricks or help finding solutions to your laboratory problems, our team of technical and commercial experts are here to help.



Forceps

Make filter handling safe and easy. Flat, smooth tip surface avoids membrane damage. Polypropylene finger grips provide comfortable and secure hold. Ideal for membrane handling to and from filter holders and petri dishes.

APPLICATIONS

Water

MF-Endo and M-FC (with and without rosolic acid) media are used when analyzing water samples for total coliforms, fecal coliforms and *E. coli*, *Pseudomonas* and KF-Streptococcal broths are highly selective media for detecting contamination in water samples.

Food & Beverage

M-TGE, HPC, M-Green YM, and Orange Serum broths are used in the food and beverage industry to detect potential spoilage organisms in final products (and fluids used in manufacture of these products).

Pharmaceutical & Microelectronics

Trypticase Soy broth, M-TGE, and HPC may be used to test final products and process waters for total bacteria in the pharmaceutical and microelectronics industries.

AMPOULE BROTHS, PETRI DISHES & ACCESSORIES

Ordering information and specifications



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2 ML PLASTIC AMPOULES

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
68105	28150-500	516-7965	MF-Endo broth, total coliforms	50/pkg
4302	28145-680	516-9076	M-FC broth with rosolic acid, fecal coliforms	50/pkg
68106	28145-740	516-7966	M-TGE broth, total bacteria	50/pkg
68111	21432-940	516-0423	M-TGE with TTC indicator, total bacteria	50/pkg
4307	28145-686	516-7964	Trypticase soy broth - USP, total bacteria	50/pkg
68108	28150-502	516-7968	KF-Streptococcal broth, fecal Streptococcus	50/pkg
4306	28145-684	516-9077	Pseudomonas broth, Pseudomonas sp.	50/pkg
68107	28150-504	516-7967	M-Green YM broth, yeast and mold	50/pkg
68109	28150-506	516-7969	Orange serum broth, Lactobacillus sp.	50/pkg
4352	28145-602	516-9081	HPC Media with TTC indicator, total bacteria	50/pkg

OTHER SPECIFICATIONS

TEST ORGANISMS	PH AT 25 C	SHELF LIFE (2-8C)	MEDIA COLOR	TARGET GOLONY COLOR	APPLICATION
<i>E. coli</i>	7.2 +/- 0.2	1 year	pinkish red	dark red with metallic sheen	Municipal wastewater, drinking water
<i>E. coli</i>	7.4 +/- 0.2	1 year	violet	blue	Municipal wastewater, drinking water
<i>E. coli</i> , <i>S. epidermidis</i>	7.0 +/- 0.2	1 year	pale yellow	organism dependent	Municipal wastewater, drinking water
<i>E. coli</i>	7.0 +/- 0.2	1 year	pale yellow	red	Food and beverage; pharmaceutical; electronics
<i>E. coli</i> , <i>S. epidermidis</i>	7.3 +/- 0.2	1 year	pale yellow	organism dependent	Pharmaceutical; electronics
<i>S. faecalis</i>	7.2 +/- 0.2	1 year	light purple	bright red	General to monitor these organisms
<i>P. aeruginosa</i>	7.1 +/- 0.2	1 year	light amber	green-blue	General to monitor these organisms
<i>S. cerevisiae</i>	4.6 +/- 0.2	1 year	green	pale green	Food and beverage
<i>L. plantarum</i> , <i>S. cerevisiae</i>	5.6 +/- 0.2	1 year	dark amber	organism dependent	Food and beverage
<i>E. coli</i> , <i>S. epidermidis</i>	7.1 +/- 0.2	1 year	pale yellow	red	Food and beverage; pharmaceutical; electronics

AMPOULE BROTHS, PETRI DISHES & ACCESSORIES

Ordering information and specifications



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PETRI DISHES AND PADS

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
7232	25388-581	516-8021	Petri dish for 47 mm membrane without absorbant pad, bulk packed, gamma irradiated	500/pkg
7242	25388-606	516-8029	Petri dish for 47 mm membrane without absorbant pad, gamma irradiated	100/pkg
7245	25388-640	516-8032	Petri dish for 47 mm membrane, with absorbant pad, gamma irradiated	100/pkg
66025	28150-677	516-9012	Absorbant pads, dispenser included, gamma irradiated	1000/pkg (10 tubes of 100 pads)

DIMENSIONS

HEIGHT / THICKNESS	DIAMETER
9.0 mm (0.35 in)	50.0 mm (1.97 in)
9.0 mm (0.35 in)	50.0 mm (1.97 in)
9.0 mm (0.35 in)	50.0 mm (1.97 in)
0.9 mm (35 mils)	47 mm

OTHER SPECIFICATIONS

FILTER SIZE	CLEANING AND STERILIZATION
accepts 47 mm	Gamma irradiated at validated dose of 15 - 30 kGy
accepts 47 mm	Gamma irradiated at validated dose of 15 - 30 kGy
accepts 47 mm	Gamma irradiated at validated dose of 15 - 30 kGy
accepts 47 mm	Gamma irradiated at validated dose of 15 - 30 kGy

ENVIRONMENTAL WATER FILTERS & SHAKERS

High-performance concentration and recovery of *Cryptosporidium* oocysts and *Giardia* cysts from source or finished water



**Full Product List
and Specifications**

PRODUCT CATALOG

Single-Use Filter Funnels

Sentino® Dispensers/Pumps

Laboratory Manifold

Reusable Filter Funnels

Filter Funnel Membranes

Ampoule Broths/Petri Dishes/
Accessories

▶ **Environmental Filters/Shakers**

High Flow Rate

Patented pleated design's high filtration area produces superior throughput

Safe Single-Use Disposable

Self-contained capsule eliminates handling of potentially contaminated filter parts. No assembly or cleaning of filter holders or elution equipment is required.

Efficient Recovery

Typical recovery is greater than 70% of target organisms.



Environmental Shaker

Save time by processing up to eight samples at once. Robust and designed for years of safe and efficient operation.



Envirochek® Capsules

Along with high flow rates and excellent recoveries, Envirochek capsules are designed to also eliminate false negatives with a 1 µm pore size designed to retain *Cryptosporidium* and *Giardia*.



Envirochek HV Capsules

The Envirochek HV capsule's high flow rate enable filtration of up to 50L of source water testing and up to 1000 L of drinking water analysis.

APPLICATIONS

Environmental Water Quality

Our Envirochek capsules are validated and listed in U.S. EPA Methods 1622 and 1623.1 for sampling source water for *Cryptosporidium* and *Giardia*.

High Filtration Volumes

The Envirochek HV capsules are suited for filtration of higher volumes for regulatory testing and are approved for EPA method 1623.1 for monitoring *Cryptosporidium* and *Giardia*.



ENVIRONMENTAL FILTERS & SHAKERS

Ordering information and specifications



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ACCESSORIES

ORDERING INFORMATION

PART #	VWR AMERICAS PART #	VWR EMEA PART #	DESCRIPTION	PKG
4820	28144-005	516-8970	Laureth-12 paste, 50 g bottle	1/pkg

VALIDATION AND APPROVED USE

Envirochek sampling capsules are validated and listed in U.S. EPA Methods 1622 and 1623.1, and used for sampling source water for *Cryptosporidium* and *Giardia*.

Envirochek HV capsules, PNs 12096 and 12097, are approved for the United Kingdom DWI regulatory testing of finished water.

Envirochek capsules are listed in ISO/DIS 15553-2006.

MICROBIOLOGY QC APPLICATIONS



Pharmaceutical, Bioprocessing & Biotech

Pall's disposable, ready-to-use filtration devices enhance pharmaceutical QC workflows. Execute testing at the time of sampling to reduce cross contamination and false test results.

[Learn More >](#)



Food & Beverage

Effective cleaning procedures and high-quality raw materials are essential to preparing safe food and beverages. Pall filtration identifies the presence of microorganisms that shorten shelf life and render inedible products.

[Learn More >](#)



Environmental Water Quality

Meeting and exceeding industry standards, Pall filtration has led the industry since membrane filtration was adopted as a preferable method for monitoring water quality.

[Learn More >](#)

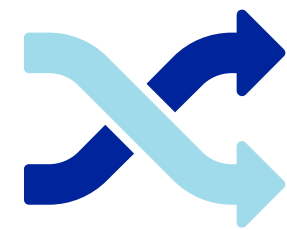
PHARMACEUTICAL, BIOPROCESSING & BIOTECH

Reduce cross contamination and repeat testing



From microbial limit testing of water and raw materials through bioburden and sterility testing, filtration is critical for the manufacture of safe and effective pharmaceuticals. Appropriate testing can prevent production disruptions and support out-of-specification investigations.

Pall's disposable, ready-to-use filtration systems are ideal for quality control analysis of aqueous fluids used in pharmaceutical and biologic production.



[View Workflow >](#)



MicroFunnel™ Plus Filter Funnels

Eliminates need for sample collection cup during water testing. Unique squeeze design permit easy membrane access. Compatible with temperatures up to 90° C.



MicroFunnel ST Filter Funnels

Convenient filters for testing in isolators or clean-rooms. Overpack layer means only one wipe down to transfer several funnels into clean test areas.



Laboratory Manifold

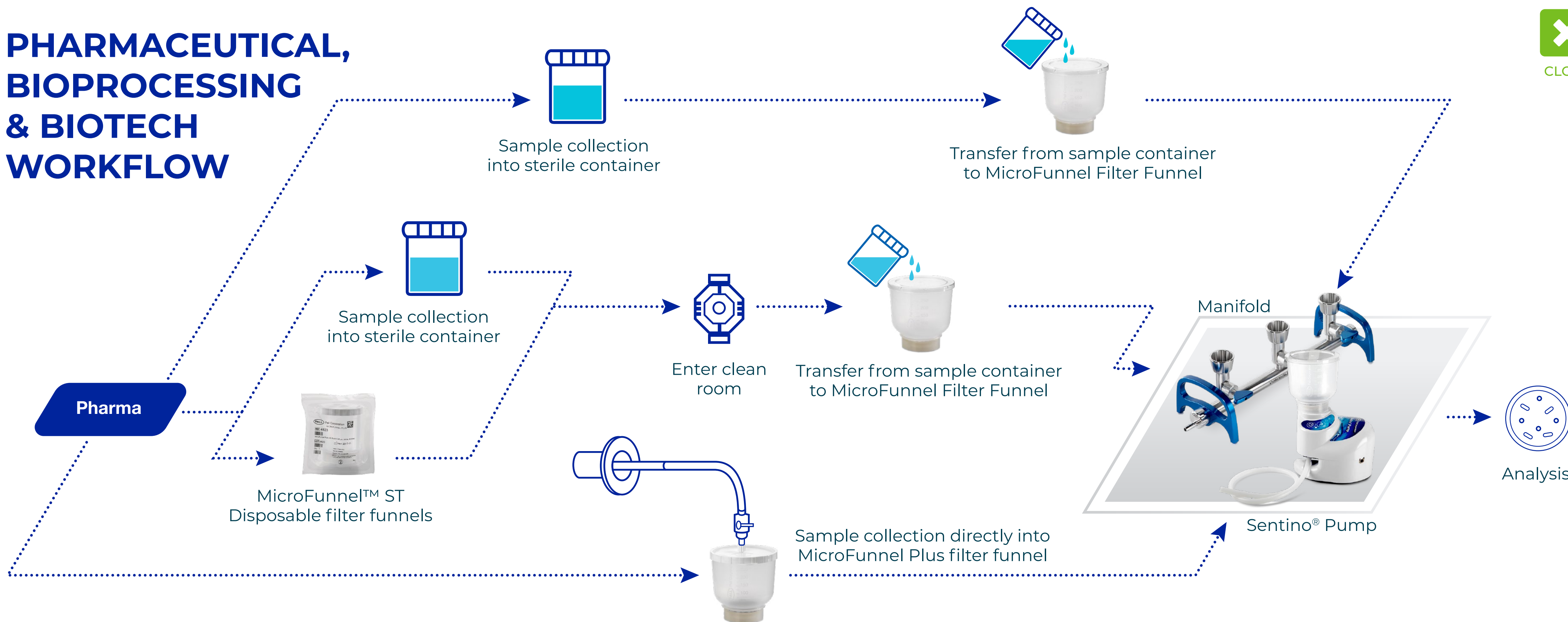
Optimize testing without sacrificing cleanliness. Reduces cross contamination with fewer parts to clean. Coupler enables joining two smaller units together, permitting sterilization of up to 6 places at once in standard lab-size autoclaves.



Sentino® Pump System

Reduce the time to prepare membrane filtration. Single-sample filtration quickly and safely. Free up lab space, simplify testing, and ensure contamination control.

PHARMACEUTICAL, BIOPROCESSING & BIOTECH WORKFLOW



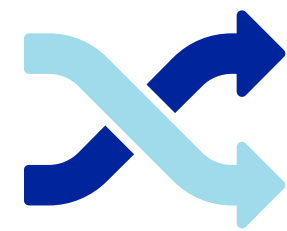
FOOD & BEVERAGE

Effectively identify microorganisms that spoil food and shorten shelf life



Food and beverage industry quality control processes require options that range from completely disposable, ready-to-use filter funnels, such as our MicroCheck® filter funnels, to modular and versatile platforms such as the Sentino® Microbiology System, all enabling use of the Membrane Filtration (MF) technique. This flexibility enables choice of the most efficient testing so that safe food products can get to market faster.

Pall's food and beverage filtration solutions are simple to set up and easy to use. The high-performance products speed up laboratory processing and reduce contamination risk.



View Workflow



MicroCheck Filter Funnels

Specifically designed for beverage microbial analysis. Easy-to-use filters are ideal for finished product and raw material microbial testing with an integrated petri dish for culture-in-place capability.



Sentino Microbiology Pump

Compact footprint frees valuable bench space while optimizing efficiency. Peristaltic pump action sends filtrate to waste collection.



Sentino Filter Dispenser

Aseptically dispenses one membrane disc at the touch of a button. Accepts a miniaturized refill pack that minimizes storage space and packaging waste.



Sentino Filter Funnels

Unique design enables efficient membrane removal. No-leak magnetic seals allow one-handed operation.



Laboratory Manifold

Optimize testing without sacrificing cleanliness. Reduces cross contamination with fewer parts to clean. Coupler enables joining two smaller units together, permitting sterilization of up to 6 places at once in standard lab-size autoclaves.

FOOD & BEVERAGE WORKFLOW

Beverage



Sample collection

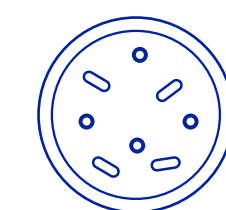


Transfer from Sample container to MicroCheck® Beverage Monitors



Manifold

Sentino



Analysis

Sample collection



Dispense membranes from Sentino® Dispenser and Dispenser packs



Place membrane on magnetic funnel



CLOSE

duces cross contamination with fewer parts to clean. Coupler enables joining two smaller units together, permitting sterilization of up to 6 places at once in standard lab-size autoclaves.

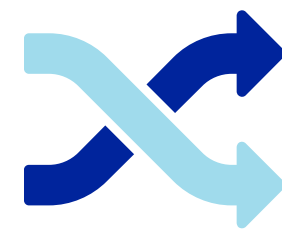
ENVIRONMENTAL WATER QUALITY

Reliable, easy-to-use products help your environmental testing stay error-free



Every day, health officials and quality managers make critical decisions about water quality that impact public safety. Reliable data from products designed to meet and even exceed the stringent requirements of water or product testing regulations are the key to assuring proper actions are taken.

Pall filtration has led the industry since membrane filtration was adopted as a preferable method for monitoring drinking water and environmental water quality. Our easy-to-use products help avoid testing errors.



[View Workflow >](#)



Envirochek® Capsules & Shaker

Capture 100% of *Cryptosporidium* oocysts and *Giardia* cysts from source or finished water. Disposable design eliminates false positives from cross contamination. Shaker processes up to eight samples at once.



Reusable Magnetic Filter Funnels

Used extensively by the water quality testing community, the one-handed operation simplifies testing and improves aseptic technique.



GN-6 Membranes

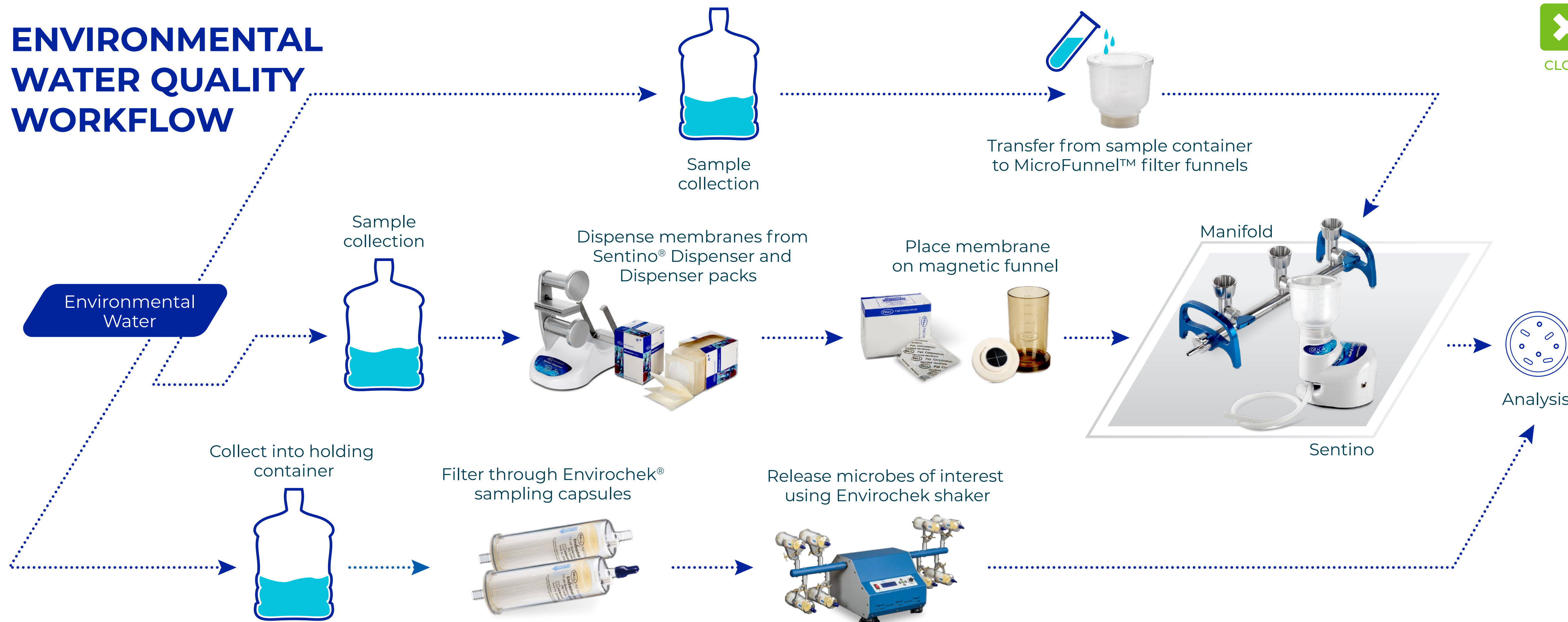
Mixed cellulose ester membranes provide uniform, consistent organism growth. A variety of media, petri dishes, and accessories support water quality labs.



Sentino® Pump and Dispenser

Filter funnels, pumps, and media dispensers enhance the performance of your water testing workflows. Their compact design frees valuable bench space and disposable fluid path limits biofilm build up and contamination.

ENVIRONMENTAL WATER QUALITY WORKFLOW



WHY PALL FOR MICROBIOLOGY QC?

Ensuring reliable test results essential for effective product quality monitoring.

The accurate, reliable detection of microorganisms is critical to public safety and industrial economics. Pall excels in the development and manufacture of products to detect and control these microorganisms. With over 70 years of development expertise, Pall is a recognized leader in membrane chemistry. Our filtration and membrane products set the standard for quality and compliance with stringent microbial regulations.



BROAD SELECTION

A wide range of disposable filter funnels and accessories that simplify microbiological analysis.



THROUGHPUT FLEXIBILITY

Filtration solutions that speed microbiological sample collection, analysis, and test results whether testing a single sample or hundreds per day.



EASY TO USE

Products designed for superior ergonomic use, reduced contamination risk, flexible membrane/funnel configurations and sample filtration.



YOUR TECHNICAL PARTNER

Solutions that comply with international testing methods are supported by technical expertise, literature, and quality certifications.

At Pall, we know quality is paramount for successful pharmaceutical development and production. We will always ask customers what can be done better. Our personal commitment is to continually advance our Quality Management System and processes by establishing quality objectives that deliver sustained measurable improvements.

CONTACT US

Ordering: [vwr.com](https://www.vwr.com)

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