

# Microbiology QC products

For reliable test results  
and effective product  
quality monitoring

Our high-performance membranes,  
filter funnels, manifolds, pumps, accessories  
and Envirochek™ HV sampling capsules are  
designed for simple operation, ease-of-analysis,  
and reduced contamination risk to produce  
reliable test results.



# Product catalog

Meet our high-performance  
Microbiology QC product line



**Single-use  
filter funnels**

[Learn more](#)



**Sentino™ dispensers,  
pumps and filter  
funnels**

[Learn more](#)



**Laboratory  
manifold**

[Learn more](#)



**Reusable filter  
funnels**

[Learn more](#)



**Filter funnel  
membranes**

[Learn more](#)



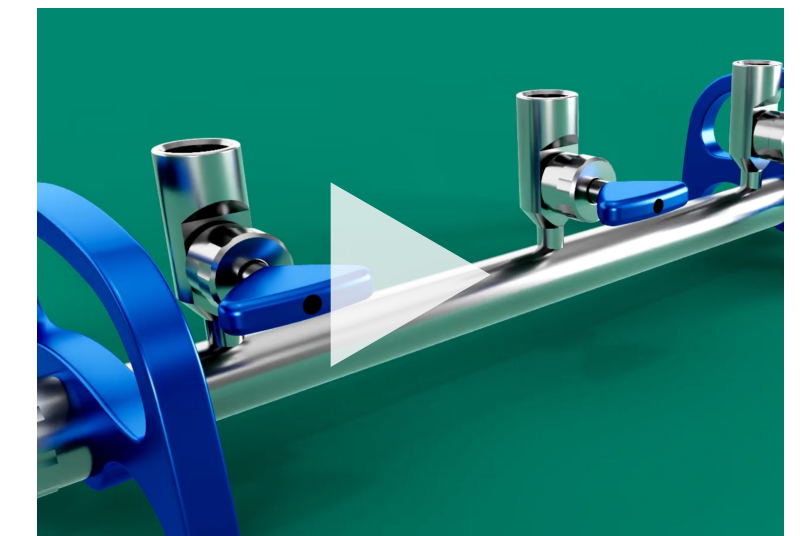
**Ampoule broths,  
petri dishes,  
accessories**

[Learn more](#)



**Environmental  
water filters and  
shakers**

[Learn more](#)



**The Microbiology  
manifold**

[Watch](#)

# MicroFunnel™ and MicroCheck™ filter funnels

Single-use filter funnels for a range of microbiology applications



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

### Superior design

Easy squeeze removal of funnel cylinder 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

Gamma irradiated and ready-to-use. No need for cleaning and sterilization. MicroFunnel™ filter funnels are individually bagged for added protection during shipping, storage and handling.

### Available with polycarbonate membrane

Flat, smooth surface provides easy elution of organisms or particulate for further analysis. Good for sample concentration, such as *Legionella* testing or prior to PCR analysis techniques as referenced for eDNA testing.



### MicroFunnel™ Plus filter funnels

Options include Supor™ membrane compatible with hot water loops up to 90° C and sample cup holder for safe operation. The sample cup and filter funnel are in one device to streamline your workflow and reduce potential contamination points.



### MicroFunnel™ ST filter funnels

Individually bagged filter funnels come inside an overpack bag for sanitary transfer into cleanrooms, laboratories and hoods.



### MicroCheck™ beverage monitor

Disposable Microcheck™ filter funnel is specifically designed for beverage microbial analysis, including integrated petri dish. Available in 100 mL volumes that are not individually bagged. Suitable for ingredient or final product testing for microbial contamination prior to release.

All graduation marks at the maximum volumes have the following accuracy: 100 mL MicroFunnel™ filter funnels +/- 1%; 300 mL MicroFunnel™ filter funnels +/- 3%.

## Applications

### General microbial testing

For aqueous or solids that completely dissolve in aqueous buffers. Check for a variety of contaminants such as total coliforms or pseudomonas.

### Bioburden testing

For raw materials, in-process and finished product testing of materials by membrane filtration (MF) technique.

### Water system monitoring

Efficient monitoring to meet regulatory performance requirements of water systems for quick response to alert and action levels.

# MicroFunnel™ and MicroCheck® Filter Funnels

## Ordering information and specifications



### 100 mL standard, including overpack options (ST)

#### Ordering Information

Part #	Description	Pkg
4800ME	0.45 µm ME25 mce white gridded membrane, individually bagged, gamma irradiated	50/pkg
4801ME	0.45 µm ME25 mce white gridded membrane, bulk, gamma irradiated	50/pkg
4804ME	0.45 µm ME25 mce white gridded membrane, individually bagged, gamma irradiated	200/pkg
4811ME	0.45 µm ME25 mce white gridded membrane, individually bagged with ST overpack, gamma irradiated	40/pkg*
4803	0.2 µm Supor white gridded membrane, individually bagged, gamma irradiated	50/pkg
4852	0.45 µm Supor white gridded membrane, individually bagged, gamma irradiated	50/pkg
4806	0.2 µm Supor white ungridded membrane, individually bagged, gamma irradiated	50/pkg
4851	0.2 µm Supor white gridded membrane, individually bagged with ST overpack, gamma irradiated	40/pkg*
4750	0.45 µm Supor white ungridded membrane, individually bagged with ST overpack, gamma irradiated	40/pkg*
4805	0.45 µm Metricel black gridded membrane, individually bagged, gamma irradiated	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: 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: 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

#### 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 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.2 µm	Membrane: white Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.45 µm	Membrane: white Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.45 µm	Membrane: black with white grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated

\* 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 with lid kit

### Ordering Information

Part #	Description	Pkg
<b>4810ME</b>	0.45 µm ME25 mce 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 cm <sup>2</sup>	N/A	Gamma irradiated

\* 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



### 100 mL Plus, including aseptic port option (AP)

#### Ordering Information

Part #	Description	Pkg
4807ME	0.45 µm ME25 mce white gridded membrane, individually bagged, gamma irradiated	50/pkg
4809	0.2 µm Supor white gridded membrane, individually bagged, gamma irradiated	50/pkg
4823	0.45 µm Supor white gridded membrane, individually bagged, gamma irradiated	50/pkg
4859	0.45 µm Supor white gridded membrane, individually bagged with ST overpack, gamma irradiated	40/pkg*
4808	0.45 µm Metrical black gridded membrane, individually bagged, gamma irradiated	50/pkg
4843	0.2 µm Supor white gridded membrane, individually bagged, gamma irradiated, with aseptic port	50/pkg
4844	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: 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
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 or Max Sample Collection Temp	Cleaning and Sterilization
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	74 °C (165 °F)	Gamma irradiated
100 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
100 mL	0.45 µm	Membrane: black with white grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
100 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated

\* 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 Microcheck with lid kit

#### Ordering Information

Part #	Description	Pkg
4763	0.45 µm MetriceL black gridded membrane, bulk packed, gamma irradiated	50/pkg
4764	0.8 µm MetriceL black gridded membrane, bulk packed, 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
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: black with white grid Funnel: translucent blue	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
100 mL	0.8 µm	Membrane: black with white grid Funnel: translucent blue	13.46 cm <sup>2</sup>	N/A	Gamma irradiated

### 100 mL Polycarbonate

#### Ordering Information

Part #	Description	Pkg
FMFNL1050	0.4 µm polycarbonate white ungridded membrane, individually bagged, gamma irradiated	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

#### Other Specifications

Capacity	Pore Size	Color	Effective Filtration Area	Max Sample Collection Temp	Cleaning and Sterilization
100 mL	0.4 µm	Membrane: white Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated

\* 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



### 300 mL standard, including overpack options (ST)

#### Ordering Information

Part #	Description	Pkg
4815ME	0.45 µm ME25 mce white gridded membrane, individually bagged, gamma irradiated	20/pkg
4812ME	0.45 µm ME25 mce white gridded membrane, individually bagged with ST overpack, gamma irradiated	20/pkg*
4818	0.2 µm Supor white gridded membrane, individually bagged, gamma irradiated	20/pkg
4853	0.2 µm Supor white gridded membrane, individually bagged with ST overpack, gamma irradiated	20/pkg*
4828	0.45 µm Supor white ungridded membrane, individually bagged, gamma irradiated	20/pkg
4751	0.45 µm Supor white ungridded membrane, individually bagged with ST overpack, gamma irradiated	20/pkg*

#### Dimensions and Weight\*

Height	Diameter	Outlet
With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.4 cm (3.4 in)	Fits MicroFunnel adapters
With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.4 cm (3.4 in)	Fits MicroFunnel adapters
With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.4 cm (3.4 in)	Fits MicroFunnel adapters
With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.4 cm (3.4 in)	Fits MicroFunnel adapters
With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.4 cm (3.4 in)	Fits MicroFunnel adapters
With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.4 cm (3.4 in)	Fits MicroFunnel adapters

#### Other Specifications

Capacity	Pore Size	Color	Effective Filtration Area	Max Sample Collection Temp	Cleaning and Sterilization
300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
300 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
300 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated
300 mL	0.45 µm	Membrane: white Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated

\* 300 mL funnels (20 units total per box): 5 individually bagged funnels within an overpack bag, 4 overpack bags per box.



# MicroFunnel™ and MicroCheck® Filter Funnels

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### 300 mL Plus, including aseptic port options (AP) and overpack options (ST)

#### Ordering Information

Part #	Description	Pkg	Height	Diameter	Outlet	Capacity	Pore Size	Color	Effective Filtration Area	Operating and Max Sample Collection Temp	Cleaning and Sterilization
<b>4829ME</b>	0.45 µm ME25 mce white gridded membrane, individually bagged, gamma irradiated	20/pkg	With cover: 8.9 cm (3.5 in) Without cover: 8.6 cm (3.4 in)	With cover: 8.7 cm (3.4 in) Without cover: 8.3 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	74 °C (165 °F)	Gamma irradiated
<b>4813</b>	0.2 µm Supor white gridded membrane, individually bagged, gamma irradiated	20/pkg	With cover: 8.9 cm (3.5 in) Without cover: 8.6 cm (3.4 in)	With cover: 8.7 cm (3.4 in) Without cover: 8.3 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
<b>4857</b>	0.2 µm Supor white gridded membrane, individually bagged with ST overpack, gamma irradiated	20/pkg*	With cover: 8.9 cm (3.5 in) Without cover: 8.6 cm (3.4 in)	With cover: 8.7 cm (3.4 in) Without cover: 8.3 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.2 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
<b>4814</b>	0.45 µm Supor white gridded membrane, individually bagged, gamma irradiated	20/pkg	With cover: 8.9 cm (3.5 in) Without cover: 8.6 cm (3.4 in)	With cover: 8.7 cm (3.4 in) Without cover: 8.3 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
<b>4858</b>	0.45 µm Supor white gridded membrane, individually bagged with ST overpack, gamma irradiated	20/pkg*	With cover: 8.9 cm (3.5 in) Without cover: 8.6 cm (3.4 in)	With cover: 8.7 cm (3.4 in) Without cover: 8.3 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated
<b>4855</b>	0.45 µm Supor white gridded membrane, individually bagged, gamma irradiated with aseptic port	20/pkg	With cover: 9.8 cm (3.8 in) Without cover: 8.6 cm (3.4 in)	With cover: 8.7 cm (3.4 in) Without cover: 8.3 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.45 µm	Membrane: white with black grid Funnel: translucent colorless	13.46 cm <sup>2</sup>	90 °C (194 °F)	Gamma irradiated

### 300 mL Polycarbonate

#### Ordering Information

Part #	Description	Pkg	Height	Diameter	Outlet	Capacity	Pore Size	Color	Effective Filtration Area	Operating and Max Sample Collection Temp	Cleaning and Sterilization
<b>FMFNL3020</b>	0.4 µm polycarbonate white ungridded membrane, individually bagged, gamma irradiated	20/pkg	With cover: 9.1 cm (3.6 in) Without cover: 8.9 cm (3.5 in)	With cover: 8.8 cm (3.5 in) Without cover: 8.5 cm (3.4 in)	Fits MicroFunnel adapters	300 mL	0.4 µm	Membrane: white Funnel: translucent colorless	13.46 cm <sup>2</sup>	N/A	Gamma irradiated

\* 300 mL funnels (20 units total per box): 5 individually bagged funnels within an overpack bag, 4 overpack bags per box.

# MicroFunnel™ and MicroCheck® Filter Funnels

## Ordering information and specifications



### Accessories

#### Ordering Information

Part #	Description	Pkg
4824	MicroFunnel Plus 100 mL filter funnel holder for hot water applications	1/pkg
4825	MicroFunnel Plus 300 mL filter funnel holder for hot water applications	1/pkg
4701	MicroFunnel filter funnel #8 stopper adapter	3/pkg
4845	MicroFunnel Plus filter funnel AP sample tubing, individually bagged, gamma irradiated	50/pkg
4895	Culture-in-Place lid kit for 100 mL MicroFunnel filter funnels (lid, base plug), gamma irradiated	20/pkg
4897	MicroFunnel filter funnel #8 stopper adapter, Gamma Irradiated	60/pkg (20 sets of 3 in overpack)

#### 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
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
N/A	N/A	Translucent colorless	N/A	N/A	Gamma irradiated
100 mL	N/A	Transparent colorless	N/A	N/A	Gamma irradiated
N/A	N/A	Blue	N/A	N/A	Gamma irradiated

\* 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™ dispenser, pump 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 has flexible options so you can select the products that work best for your workflow.

### Process simplicity

The Sentino™ system is designed for fast and easy setup. The compact size of pump and dispenser frees up valuable lab space and is easy to store.

### Convenient operation

Styled to provide a flexible setup while promoting the aseptic technique. Can be plugged into AC power or battery operated for portability.

### Filter funnel flexibility

Available fluid path adapters support filtration using disposable MicroFunnel™ and Microcheck™ filter funnels, Sentino™ filter funnel cylinders or a magnetic filter funnel.



### Sentino™ pump

Quickly set up for filtrations. Peristaltic pump action drives the filtration and sends filtrate to waste collection. Simply replace fluid path before biofilm becomes a contamination risk.



### Sentino™ dispenser and membranes

Maintain a clean workspace with this push button dispenser of sterile membranes. Packaging waste is contained on spools. Guide plates provide easy loading and maintain alignment to prevent jamming.



### Magnetic and Sentino™ filter funnels

Durable magnetic filter funnels provide a leak free seal with one-handed operation to easily place and retrieve the membrane. Sentino™ filter funnel is available in 100 or 250 mL sizes. Available gamma irradiated.

## 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

Ready for end of shift samples or a last minute available testing hood. Sentino™ pump is quick and easy to set up when you have already cleaned, packed and sterilized your manifold for the next day's use.

# Sentino® Dispensers, Pumps and Filter Funnels

## Ordering information and specifications



### Pump and Accessories

#### Ordering Information

Part #	Description	Pkg
13186	Sentino Microbiology Pump, peristaltic	1/pkg
4861	MicroFunnel filter funnel disposable fluid path, 10/pk (adapter and tubing)	10/pkg
4285	Tubing, 2 ft length, no adapter, 10/pk (adapter needed)	10/pkg
4283	Sentino magnetic filter funnel adapter for tubing and pump (need 4285)	1/pkg
4872	Sentino filter funnel adapter for tubing and pump (need 4285)	1/pkg

#### Dimensions and Weight

Height	Diameter / Width / OD	Length	Weight	Outlet
10.4 cm (4.1 in)	9.5 cm (3.7 in)	13.6 cm (5.4 in)	680 g (1.5 lbs)	tubing: 4.8 mm (3/16 in) ID, 7.9 mm (5/16 in) OD
1.6 mm (1/16 in) wall thickness	7.9 mm (5/16 in) OD	61 cm (24 in)	N/A	4.8 mm (3/16 in) ID, 7.9 mm (5/16 in) OD
1.6 mm (1/16 in) wall thickness	7.9 mm (5/16 in) OD	62 cm (24 in)	N/A	4.8 mm (3/16 in) ID, 7.9 mm (5/16 in) OD
2.5 cm (1.0 in)	6.1 cm (2.4 in)	N/A	N/A	1/4 in FNPT
2.3 cm (0.9 in)	6.1 cm (2.4 in)	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
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
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
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

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

# Sentino<sup>®</sup> Dispensers, Pumps and Filter Funnels

Ordering information and specifications



## Dispenser and Membranes

### Ordering Information

Part #	Description	Pkg
13184	Sentino Z-pack membrane dispenser	1/pkg
68123	0.2 µm 47 mm Supor white gridded membrane, z-pack, gamma irradiated	1000/pkg (5 boxes of 200)
68124	0.45 µm 47 mm MetriceL black gridded membrane, z-pack, gamma irradiated	1000/pkg (5 boxes of 200)
68125	0.8 µm 47 mm MetriceL 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

### 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
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

# Sentino<sup>®</sup> Dispensers, Pumps and Filter Funnels

## Ordering information and specifications



Close

### Pump Filter Funnels

#### Ordering Information

Part #	Description	Pkg
4870	Sentino 100 mL polypropylene filter funnel, gamma irradiated	100/pkg
4871	Sentino 250 mL polypropylene filter funnel, gamma irradiated	80/pkg
4271	Sentino 150 mL polyphenylsulfone magnetic filter funnel	1/pkg
4273	Sentino 300 mL polyphenylsulfone magnetic filter funnel	1/pkg
4277	Sentino 500 mL polyphenylsulfone magnetic filter funnel	1/pkg
4279	Sentino 150/300 mL polyphenylsulfone magnetic funnel replacement base, with support screen	1/pkg

#### Dimensions and Weight

Height	Diameter / Width / OD	Length	Weight	Outlet
5.3 cm (2.1 in)	8.1 cm (3.2 in); Supports 47 mm filter	N/A	N/A	fits 4872
9.6 cm (3.8 in)	8.1 cm (3.2 in); Supports 47 mm filter	N/A	N/A	fits 4872
11.8 cm (4.6 in)	7.6 cm (3.0 in); Supports 47 mm filter	N/A	N/A	fits 4283
16.8 cm (6.6 in)	7.6 cm (3.0 in); Supports 47 mm filter	N/A	N/A	fits 4283
16.6 cm (6.5 in)	8.9 cm (3.5 in); Supports 47 mm filter	N/A	N/A	fits 4283
N/A	Supports 47 mm filter	N/A	N/A	fits 4283

#### Other Specifications

Operation temp range	Power	Cleaning and Sterilization
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
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
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
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
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

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

# 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.



### 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.

[Download the brochure](#)



### 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



### Manifold

#### Ordering Information

Part #	Description	Pkg
4889	3 Place 316 Stainless Steel Manifold including 3 valves, 1 end cap, 1 hose barb cap	1 set/pkg
4890	Microfunnel filter funnel adapter	3/pkg
4891	Sentino funnel adapter	3/pkg
4892	Standard adapter	3/pkg
4959	Elongated standard adapter	3/pkg
4893	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
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



Close

1 2

### Manifold Accessories and Replacement Parts

#### Ordering Information

Part #	Description	Pkg
4878	Spare O-ring kit	1 set/pkg
4894	Manifold valves	1/pkg
4887	5/16" ID-comparable hose barb end cap*	1/pkg
4967	3/8" ID-compatible hose barb end cap*	1/pkg
4899	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 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

Graduation marks at the maximum volumes accuracy +/- 2% (300 & 500 mL funnels)



### 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 harsh chemicals

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.

# Reusable Filter Funnels

## Ordering information and specifications



Close



### Magnetic Funnels

#### Ordering Information

Part #	Description	Pkg
4247	150 mL polyphenylsulfone for 47 mm membranes	1/pkg
4241	300 mL polyphenylsulfone for 47 mm membranes, with lid	1/pkg
4242	300 mL polyphenylsulfone for 47 mm membranes	1/pkg
4238	500 mL polyphenylsulfone for 47 mm membranes	1/pkg

#### Dimensions and Weight

Height	Diameter	Outlet
17.8 cm (7.0 in)	7.6 cm (3.0 in); accepts 47 mm filters	fits standard #8 stopper
22.9 cm (9.0 in)	7.6 cm (3.0 in); accepts 47 mm filters	fits standard #8 stopper
22.9 cm (9.0 in)	7.6 cm (3.0 in); accepts 47 mm filters	fits standard #8 stopper
22.9 cm (9.0 in)	8.9 cm (3.5 in); accepts 47 mm filters	fits standard #8 stopper

#### Other Specifications

Capacity	Effective Filtration Area	Cleaning and Sterilization
150 mL	9.6 cm <sup>2</sup>	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min; UV sterilizable
300 mL	9.6 cm <sup>2</sup>	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min; UV sterilizable
300 mL	9.6 cm <sup>2</sup>	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min; UV sterilizable
500 mL	13.1 cm <sup>2</sup>	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min; UV sterilizable

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

# Reusable Filter Funnels

## Ordering information and specifications



### Stainless Steel Funnels

#### Ordering Information

Part #	Description	Pkg
4221	100 mL 304 stainless steel for 47 mm membranes	1/pkg
4230	1 L 304 stainless steel for 47 mm membranes	1/pkg

#### Dimensions and Weight

Height	Diameter	Outlet
16.3 cm (6.4 in)	6.6 cm (2.6 in); accepts 47 and 50 mm filters	fits standard #8 stopper
22.2 cm (8.7 in)	15.2 cm (6.0 in); ; accepts 47 mm filters	fits standard #2 stopper

#### Other Specifications

Capacity	Effective Filtration Area	Cleaning and Sterilization
100 mL, calibrated to 50 mL	9.6 cm <sup>2</sup>	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min; UV sterilizable
1 L	9.6 cm <sup>2</sup>	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min; UV sterilizable

### Other Funnels

#### Ordering Information

Part #	Description	Pkg
4204	50 mL polysulfone for 25 mm membranes	1/pkg
4203	200 mL polysulfone for 25 mm membranes	1/pkg

#### Dimensions and Weight

Height	Diameter	Outlet
15.8 cm (6.2 in)	7.1 cm (2.8 in); accepts 25 mm filters	fits standard #2 stopper
20.1 cm (7.9 in)	7.1 cm (2.8 in); accepts 25 mm filters	fits standard #2 stopper

#### Other Specifications

Capacity	Effective Filtration Area	Cleaning and Sterilization
50 mL	N/A	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
200 mL	N/A	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

# Reusable Filter Funnels

## Ordering information and specifications



### Accessories

#### Ordering Information

Part #	Description	Pkg
82728	No. 8 rubber stopper	1/pkg
4246	300 mL magnetic funnel lid kit	1/pkg
4248	150 mL polyphenylsulfone magnetic funnel replacement housing	1/pkg
4243	300 mL polyphenylsulfone magnetic funnel replacement housing	1/pkg
4254	500 mL polyphenylsulfone magnetic funnel replacement housing	1/pkg
4244	150/300 mL polyphenylsulfone magnetic funnel replacement base, without support screen	1/pkg
87264	Polyphenylsulfone magnetic funnel replacement support screen	1/pkg
4235	304 stainless steel magnetic funnel replacement support screen	1/pkg
4231	304 stainless steel replacement 47 mm compatible base, without support screen	1/pkg
81312	304 stainless steel replacement 47 mm compatible support screen	1/pkg

#### Dimensions and Weight

Height	Diameter	Outlet
N/A	N/A	9.5 mm (3/8") bore size
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	N/A
N/A	N/A	N/A
N/A	N/A	N/A

#### Other Specifications

Capacity	Effective Filtration Area	Cleaning and Sterilization
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
300 mL	N/A	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
150 mL	N/A	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
300 mL	N/A	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
500 mL	N/A	Withstands multiple autoclavings* at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
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
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
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
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
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

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

# Filter funnel membranes

Reliable results with 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

Membrane filter (MF) technique is a versatile microbiology sample prep tool. We offer a variety of pore sizes, membrane colors, and membrane types in sterile and non-sterile formats.



### Mixed cellulose ester

A 0.45 µm white gridded MCE membrane is the most cited filter in microbiology. We offer MCE in 0.2 to 1.2 µm pore size, in white, black and green, gridded and plain, in s-pack or dispenser pack and non-sterile options.

### Ensure accurate analysis

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



### Polyethersulfone

PES membranes offer increased chemical compatibility, temperature stability for hot-loop water samples, and high flow rates. Often selected for its low binding characteristics when processing pharmaceutical or preserved samples.

### Certified for use

Each lot is QC tested to assure recovery and morphology performance meets global standards. Certificates available online.



### Polycarbonate track etched

PC TEM has a smooth surface and controlled pore structure for capturing organisms and particulate on the surface. It's often the filter of choice for direct staining and microscopic examination, or concentrate and elute methods like *Legionella* testing. Also used in sample concentration and bead-beating for PCR sample prep.

## Applications

### Pharmaceutical, water, food & beverage

Widely-accepted mixed cellulose ester membranes 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

Dark backgrounds provide better contrast for viewing morphology and counting light colored colonies. For example, *Legionella* colonies are better seen on black MCE or PES filters. Other applications include isolation and enumeration of yeast and mold colonies, plus spoilage organism monitoring and identification in food and beverage QC labs.

### High performance required

Pore size are important in selection of the right filter. Larger pore sizes are selected to maximize flow rate when testing for yeast and mold. Smaller pore sizes provide security in retaining smaller bacteria. 0.2 µm filters are often selected for water system monitoring by labs requiring enumeration of organisms stunted in size from exposure to harsh conditions. 0.2 µm easily captures *Pseudomonas* species, especially stressed organisms.

# Filter Funnel Membranes

## Ordering information and specifications



### GN-6

#### Ordering Information

Part #	Description	Pkg
10406970	0.2 µm 47 mm ME24 mce white gridded membrane, individually sealed, EtO sterilized, 100/PK	0.2 µm 47 mm ME24 mce white gridded membrane, individually sealed, EtO exposed, 100/PK
10406972	0.2 µm 50 mm ME24 mce white gridded membrane, individually sealed, EtO sterilized, 100/PK	0.2 µm 50 mm ME24 mce white gridded membrane, individually sealed, EtO exposed, 100/PK
10406870	0.45 µm 47 mm ME25 mce white gridded membrane, individually sealed, EtO sterilized, 100/PK	0.45 µm 47 mm ME25 mce white gridded membrane, individually sealed, EtO exposed, 100/PK
10406871	0.45 µm 47 mm ME25 mce white gridded membrane, individually sealed, EtO sterilized, 1000/PK	0.45 µm 47 mm ME25 mce white gridded membrane, individually sealed, EtO exposed, 1000/PK
10409770	0.45 µm 47 mm ME25 mce black gridded membrane, individually sealed, EtO sterilized, 100/PK	0.45 µm 47 mm ME25 mce black gridded membrane, individually sealed, EtO exposed, 100/PK
10409771	0.45 µm 47 mm ME25 mce black gridded membrane, individually sealed, EtO sterilized, 1000/PK	0.45 µm 47 mm ME25 mce black gridded membrane, individually sealed, EtO exposed, 1000/PK
66191ME	0.45 µm 47 mm ME25 mce black gridded membrane, individually sealed, EtO sterilized, 2000/PK	0.45 µm 47 mm ME25 mce black gridded membrane, individually sealed, EtO exposed, 1000/PK
10406872	0.45 µm 50 mm ME25 mce white gridded membrane, individually sealed, EtO sterilized, 100/PK	0.45 µm 50 mm ME25 mce white gridded membrane, individually sealed, EtO exposed, 100/PK
10409772	0.45 µm 50 mm ME25 mce black gridded membrane, individually sealed, EtO sterilized, 100/PK	0.45 µm 50 mm ME25 mce black gridded membrane, individually sealed, EtO exposed, 100/PK
10408970	0.8 µm 47 mm ME27 mce white gridded membrane, individually sealed, EtO sterilized, 100/PK	0.8 µm 47 mm ME27 mce white gridded membrane, individually sealed, EtO exposed, 100/PK
10409272	0.8 µm 50 mm ME27 mce black gridded membrane, individually sealed, EtO sterilized, 100/PK	0.8 µm 50 mm ME27 mce black gridded membrane, individually sealed, EtO exposed, 100/PK

#### Dimensions and Weight

Height / Thickness	Diameter / Width
N/A	47 mm
N/A	50 mm
N/A	47 mm
N/A	47 mm
N/A	47 mm
N/A	47 mm
N/A	47 mm
N/A	50 mm
N/A	50 mm
N/A	50 mm
N/A	47 mm

#### Other Specifications

Pore size	Color	Typical water flow rate	Recovery	Cleaning and Sterilization
0.2 µm	N/A	20 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.2 µm	N/A	20 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	12.5 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	12.5 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	12.5 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	12.5 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	12.5 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	12.5 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.45 µm	N/A	2.8 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized
0.8 µm	N/A	2 s/100 mL/12.5 cm <sup>2</sup>	meets ISO recovery standards	ethylene oxide sterilized

# Filter Funnel Membranes

## Ordering information and specifications



### Metricel Black

#### Ordering Information

Part #	Description	Pkg	Height / Thickness	Diameter / Width	Pore size	Color	Typical water flow rate	Recovery	Cleaning and Sterilization
66585	0.45 µm 47 mm Metricel black gridded membrane, individually sealed, gamma irradiated	200/pkg	0.45 µm: 130 µm (5.1 mils)	47 mm	0.45 µm	black with white grid	mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi) 0.45 µm: > 34	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
66586	0.45 µm 47 mm Metricel black gridded membrane, bulk pack	100/pkg	0.45 µm: 130 µm (5.1 mils)	47 mm	0.45 µm	black with white grid	mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi) 0.45 µm: > 34	N/A	Autoclave if desired at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min
66587	0.8 µm 47 mm Metricel black gridded membrane, individually sealed, gamma irradiated	200/pkg	0.8 µm: 147 µm (5.8 mils)	47 mm	0.8 µm	black with white grid	mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi) 0.8 µm: > 102	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
66588	0.8 µm 47 mm Metricel black gridded membrane, bulk pack	100/pkg	0.8 µm: 147 µm (5.8 mils)	47 mm	0.8 µm	black with white grid	mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi) 0.8 µm: > 102	N/A	Autoclave if desired at 121 - 123 °C (250 -253 °F) at 1.0 bar (100 kPa, 15 psi) for 15 - 20 min



# Filter Funnel Membranes

## Ordering information and specifications



Close



### Supor<sup>®</sup>

#### Ordering Information

Part #	Description	Pkg
66234	0.2 µm 47 mm Supor white gridded membrane, individually sealed, gamma irradiated	200/pkg
60043	0.45 µm 47 mm Supor white gridded membrane, individually sealed, gamma irradiated	200/pkg
65472	0.8 µm 47 mm Supor white gridded membrane, individually sealed, gamma irradiated	200/pkg

#### Dimensions and Weight

Height / Thickness	Diameter / Width
145 µm (5.7mils)	47 mm
140 µm (5.5 mils)	47 mm
140 µm (5.5 mils)	47 mm

#### Other Specifications

Pore size	Color	Typical water flow rate	Recovery	Cleaning and Sterilization
0.2 µm	white with black grid	26 mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)	>90% (measured vs control)	Gamma irradiated at validated dose of 15 - 30 kGy
0.45 µm	white with black grid	58 mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)	N/A	Gamma irradiated at validated dose of 15 - 30 kGy
0.8 µm	white with black grid	165 mL/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)	N/A	Gamma irradiated at validated dose of 15 - 30 kGy

## Certifications

Certified for the microbiological analysis of potable, waste, process, and natural waters in accordance with the MF Technique referenced in *Standard Methods for the Examination of Water and Wastewater* and the U.S. EPA's *Microbiological Methods for Monitoring the Environment*, 600/8-78-017.

# Ampoule broths, petri dishes and 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.

### Ready-to-use

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

### Technical support

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



### Broth media

Wide variety of sterile ampoule media premixed, premeasured, and sterilized for maximum efficiency and time savings. Meets MF technique requirements with 2 mL ampoules.



### Petri dishes and absorbent pads

Size-compatible dishes come with or without absorbent pads. Bulk packaging offers exceptional value. Absorbent pads, available gamma irradiated, packed in tubes of 100 with a dispenser tool for easy placement into a petri dish.



### 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 media are used when analyzing water samples for total coliforms, fecal coliforms and *E. coli*. We also offer selective *Pseudomonas* broth for testing recreational and process waters.

### 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 and microelectronics

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



1 2

## 2 mL plastic ampoules

### Ordering Information

Part #	Description	Pkg
68105	MF-Endo broth, total coliforms	50/pkg
4302	M-FC broth with rosolic acid, fecal coliforms	50/pkg
68106	M-TGE broth, total bacteria	50/pkg
4306	Pseudomonas broth, Pseudomonas sp.	50/pkg
68107	M-Green YM broth, yeast and mold	50/pkg
68109	Orange serum broth, Lactobacillus sp.	50/pkg
4352	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, S. epidermidis</i>	7.0 +/- 0.2	1 year	pale yellow	organism dependent	Municipal wastewater, drinking water
<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, S. cerevisiae</i>	5.6 +/- 0.2	1 year	dark amber	organism dependent	Food and beverage
<i>E. coli, 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



### Petri dishes and pads

#### Ordering Information

Part #	Description	Pkg
7232	Petri dish for 47 mm membrane without absorbant pad, bulk packed, gamma irradiated	500/pkg
7242	Petri dish for 47 mm membrane without absorbant pad, gamma irradiated	100/pkg
7245	Petri dish for 47 mm membrane, with absorbant pad, gamma irradiated	100/pkg
66025	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

### Forceps

#### Ordering Information

Part #	Description	Pkg
4690	Stainless steel forceps with polypropylene multi-colored grips	3/pkg
51147	Stainless steel forceps with polypropylene black grips	1/pkg

#### Dimensions

Height / Thickness	Diameter
N/A	N/A
N/A	N/A

#### Other Specifications

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

# Envirochek™ HV sampling capsules and shakers

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



## 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

Pleated design to maximize throughput, flow rate, and recoveries. 1 µm polyester track etched membrane for efficient capture and elution of particulate from the membrane surface.



### Envirocheck™ HV capsules

The Envirochek™ HV capsule's high flow rate enable filtration of up to 10 L of disinfected water, 50 L of source water, and 100 L of drinking water for analysis.

### Safe single-use disposable

Ready-to-use capsules for filtration in the field or laboratory. Provided with tight-fitting caps for shipping and elution steps of regulated procedures.



### Envirocheck™ HV capsules

Capsules developed for compliance to global water methods for *Cryptosporidium* and *Giardia* testing.

### Efficient recovery

Typical recovery of capsules through elution, separation and microscopy is greater than 70% for the target organisms.



### Environmental shaker

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

## Applications

### Environmental water quality

Envirochek™ capsules are validated and listed in U.S. EPA Methods 1622, 1623, 1623.1, and 1693 for sampling water for *Cryptosporidium* and *Giardia*.

### High filtration volumes

The Envirochek™ HV capsules were developed and optimized for maximum throughput of a variety of source and treated waters encountered for *Cryptosporidium* and *Giardia* testing.

# Environmental Filters & Shakers

## Ordering information and specifications



### Capsules

#### Ordering Information

Part #	Description	Pkg	Materials of Construction	Dimensions and Weight				Other Specifications		
				Length / Depth	Diameter / Width	Height	Weight	Inlet/Outlet Connections	Effective Filtration Area	Elution Capacity
12098	Envirochek HV sampling capsule, individually bagged	25/pkg	Filter media: polyester, hydrophilic membrane Housing: polycarbonate Filter support material: polypropylene End caps: blue vinyl Adhesive: urethane	21.6 cm (8.5 in)	6.1 cm (2.4 in)	N/A	N/A	12.7 mm (1/2 in) straight hose barb OD	1300 cm <sup>2</sup>	min 127 mL
12099	Envirochek HV sampling capsule	1/pkg	Filter media: polyester, hydrophilic Housing: polycarbonate Filter support material: polypropylene End caps: blue vinyl Adhesive: urethane	21.6 cm (8.5 in)	6.1 cm (2.4 in)	N/A	N/A	12.7 mm (1/2 in) straight hose barb OD	1300 cm <sup>2</sup>	min 127 mL

### Accessories

#### Ordering Information

Part #	Description	Pkg
89051	Shaker replacement clamp with collar	1/pkg
4820	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, 1623, 1623.1 and 1693, and used for sampling source, finished and disinfected water for *Cryptosporidium* and *Giardia*.

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

# Microbiology QC applications



## Pharmaceutical, bioprocessing and biotech

Cytiva 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 and beverage

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

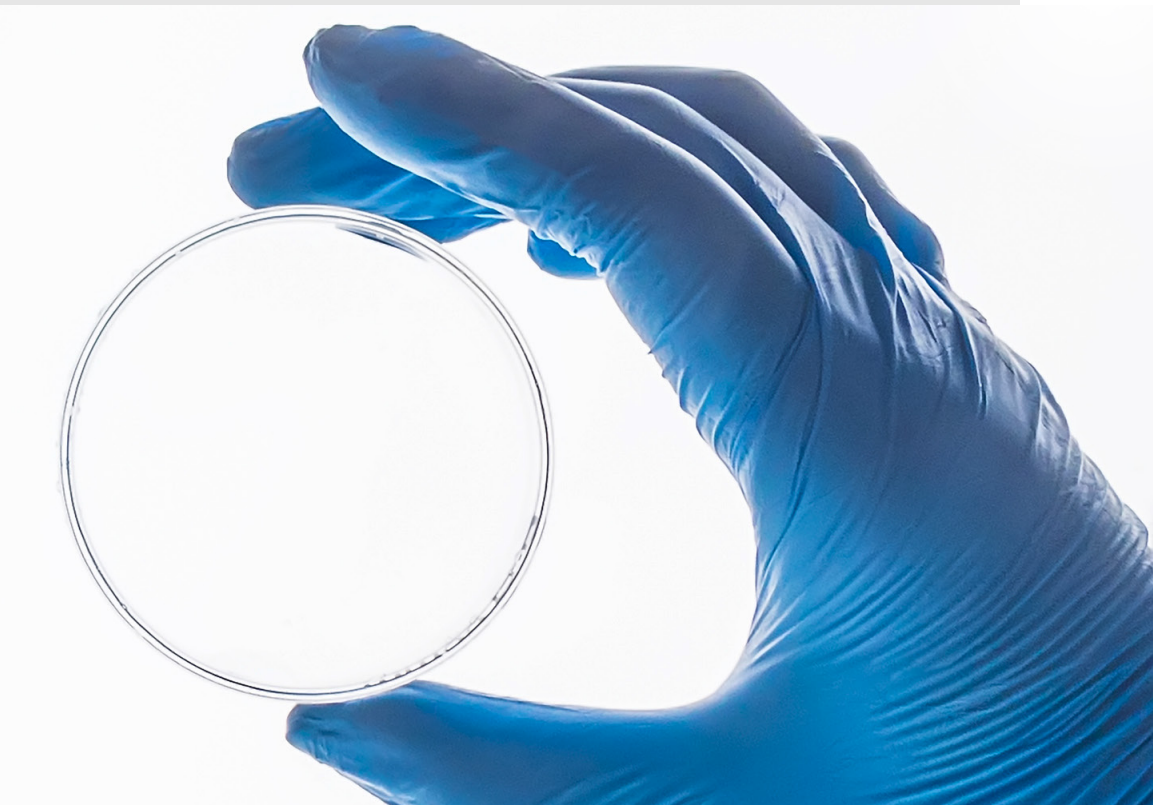
[Learn more](#)



## Environmental water quality

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

[Learn more](#)

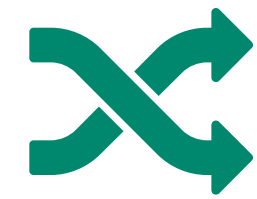


# Pharmaceutical, bioprocessing and biotech

Reduce cross contamination  
and repeat testing

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

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



[View workflow](#)

## Cytiva quality policy and certifications

[Learn more about quality at Cytiva](#)

[Product certificates](#)



### 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 cleanrooms. 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.



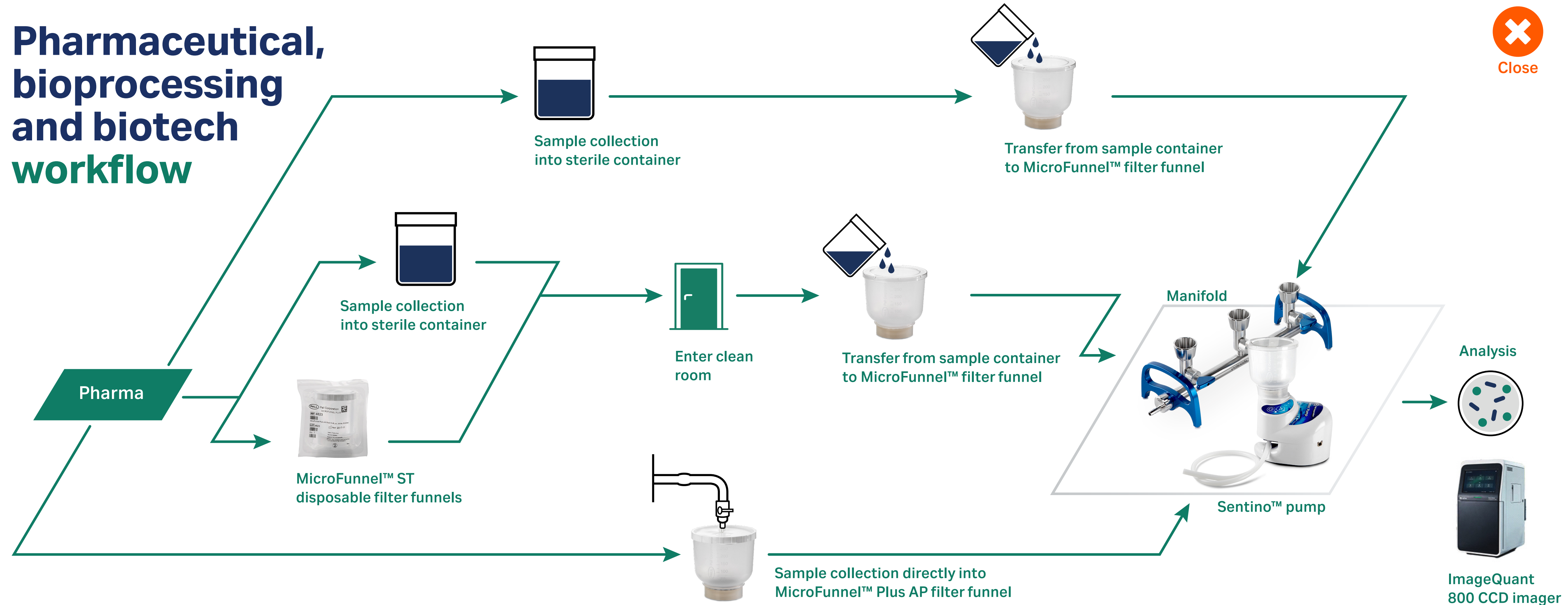
### Sentino™ pump system

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 and biotech workflow



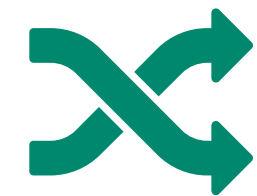
# Food and beverage

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.

Our 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](#)

## Cytiva quality policy and certifications

[Learn more about quality at Cytiva](#)

[Product certificates](#)



### 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 and membrane

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

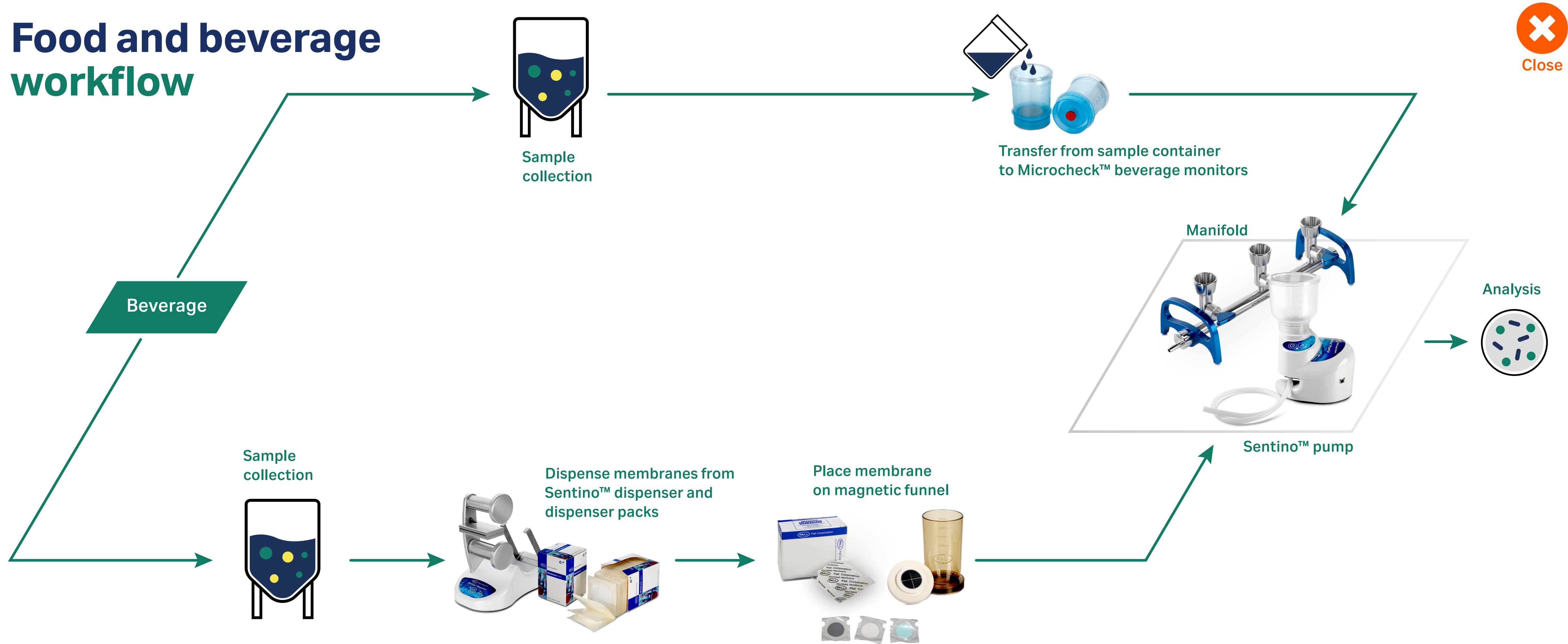
Unique design enables efficient membrane removal. No-leak magnetic seals allow one-handed operation.



### 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 and beverage workflow



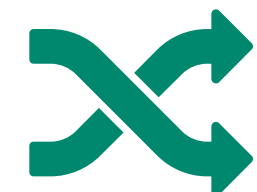
# Environmental water quality

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.

Our 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](#)

## Cytiva quality policy and certifications

[Learn more about quality at Cytiva](#)

[Product certificates](#)



### Envirochek™ capsules and 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.



### ME25 membranes

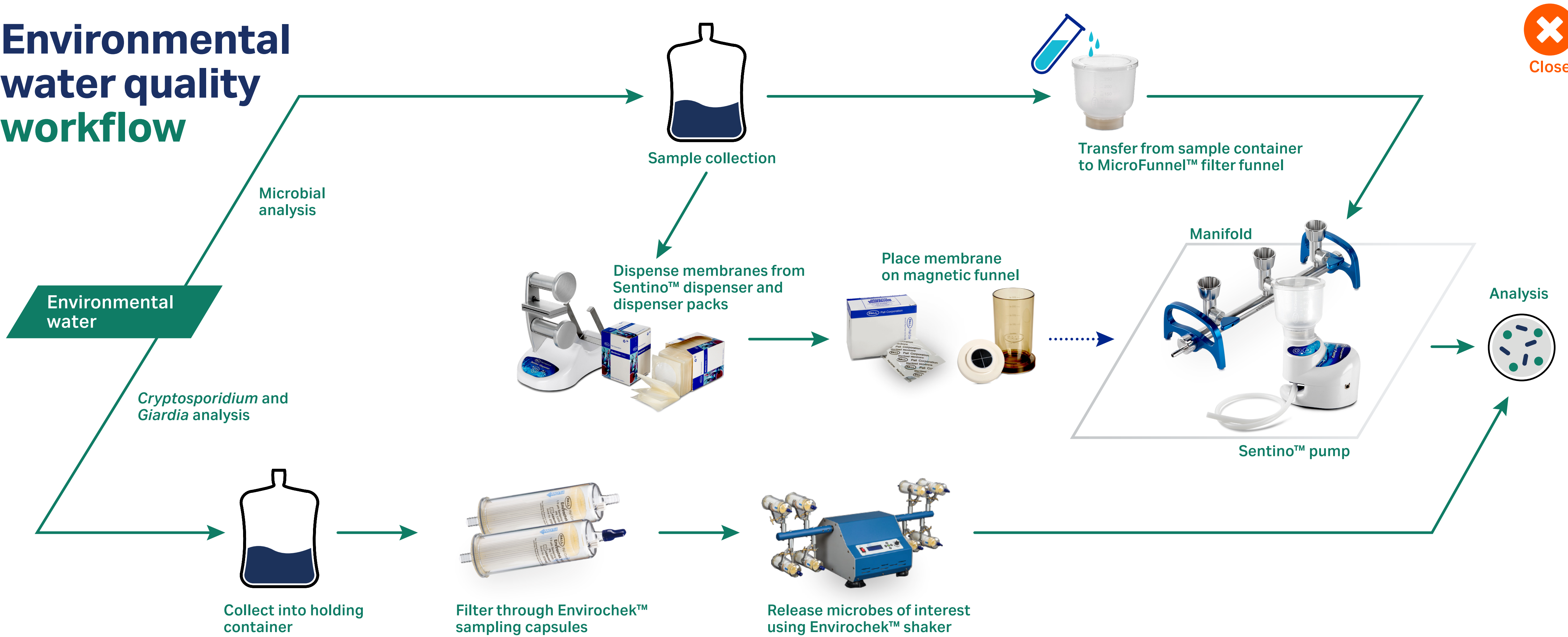
Mixed cellulose ester membranes provide uniform, consistent organism growth. A variety of media, petri dishes, and accessories support water quality labs.



### 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 Cytiva 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. We excel in the development and manufacture of products to detect and control these microorganisms. Our filtration and membrane products are compliant 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.

We know quality is paramount for successful pharmaceutical development and production. We commit to continually advance our processes by establishing quality objectives that deliver sustained measurable improvements.

For customer service or technical support, contact us at the email or phone numbers below:

## Contact us



### United States contact info

**Telephone:** +1 800 526 3593

For local office contact information, visit:  
[cytiva.com/contact](https://www.cytiva.com/contact)



### United States Headquarters

Global Life Sciences Solutions USA LLC  
100 Results Way  
Marlborough MA 01752, United States

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Click here to have a Cytiva representative contact you.

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[Microbiology QC](#) 

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