

MicroFunnel™ ST funnel

Instructions for Use

Introduction

Important

Read these instructions carefully before using the products.

Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

Background

Description

MicroFunnel™ ST funnel is a disposable filter unit that is used for recovery and culture of microorganisms from aqueous fluids. The filter unit has a flexible cylinder that allows for removal of the membrane filter prior to culturing.

The product is delivered double bagged to enable sanitary transfer into controlled areas.

Membranes

Supor™ membrane: 0.2 or 0.45 µm polyethersulfone (PES) membrane suitable for low binding of antibiotics or other inhibitory substances.

ME25 membrane: A 0.45 µm mixed cellulose ester (MCE) membrane suitable for use with aqueous solutions.

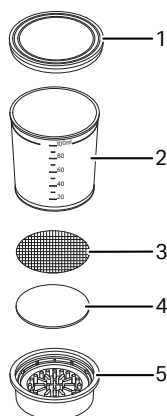
Technical information

Technical data

Support pad:	Cellulose
Funnel and base:	Polypropylene
Funnel cover:	Polystyrene
Bag and overpack bag:	Polyethylene
Adapter:	Polyethylene
Membrane diameter:	47 mm (1.9 inch)
Filter media:	- polyethersulfone membrane - mixed cellulose ester membrane
Maximum vacuum:	635 mm Hg (25 in. Hg) (vacuum use only)

Effective filtration area:	13.46 cm ²
Dimensions (H × W):	100 mL funnels 7.6 × 6.1 cm (3.0 × 2.4 inch) with cover 300 mL funnels 9.1 × 8.8 cm (3.6 × 3.5 inch) with cover
Sterilization:	Gamma-irradiated

The illustration below shows the parts of the filter unit.



Part	Description
1	Cover
2	Cylinder
3	Membrane
4	Support pad
5	Base

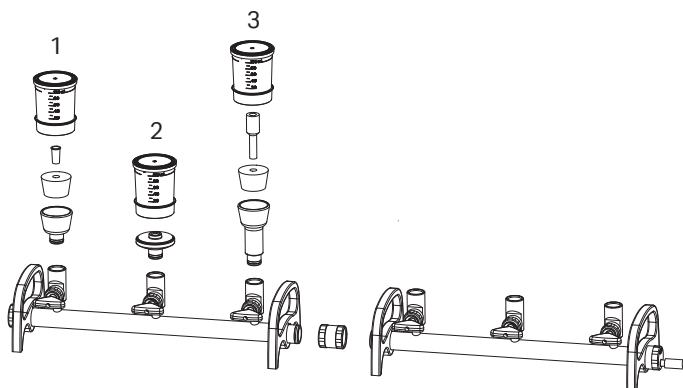
Instructions for Use

Sanitize the filter package

Follow the steps below to sanitize the filter package and filter the sample.

Step	Action
1	Sanitize the surface of the overpack bag by wiping, spraying, or exposing to a vaporized agent in a transfer chamber.
2	Cut open the overpack bag with a pair of sterilized scissors. Be careful to avoid any damage to the individual bags contained within the overpack.
3	Arrange the individual product bags in the testing area.

Step	Action
4	Remove the filter unit from the bag. Place the filter unit onto the manifold with the applicable adapter assembly as shown below.



Option	Adapter assembly
1	Standard adapter with no. 8 stopper
2	MicroFunnel adapter
3	Elongated adapter with no. 8 stopper and autoclavable adapter

5	Remove the funnel cover without touching the inner surface.
6	(Optional): Rinse the inside walls of the funnel and wet out the membrane surface.
7	Replace the cover and turn on the vacuum pump to draw rinse fluid through. Turn off the vacuum pump.
8	Remove the funnel cover without touching the inner surface and pour the sample into the funnel. Replace the cover.
9	Turn on the vacuum pump for 30 to 40 seconds and draw the sample through the filter.
10	Filter the entire sample first, then rinse the inside walls of the funnel with sterile buffer. Turn off the vacuum pump.

Culture the sample

Follow the steps below to culture the sample.

Step	Action
1	Hold the filter unit with one hand and gently squeeze the funnel cylinder near the top with the other hand.
2	Remove the funnel cylinder carefully from the base.
3	Dip the tips of a stainless steel forceps into alcohol and flame to sterilize. Allow to cool before handling the membrane.
4	Insert the sterilized forceps and remove the membrane from the base leaving behind the support pad.
5	Place the membrane filter on a prepared agar plate or Petri dish/absorbent pad combination soaked with broth, or submerge the filter in broth media.
6	Transfer the Petri dish to an incubator, and incubate the Petri dish inverted at the specified temperature and time.
7	Count the colonies using your standard procedure.

Step	Action
8	Discard the Petri dish following national and local guidelines for disposal of biohazardous material.

Ordering information

For additional ordering information, visit [cytiva.com](https://www.cytiva.com).

Product code	Description	Qty./Pkg. ^{1,2}
4811ME	100 mL with ME25 MCE membrane 0.45 µm white gridded gamma irradiated	40
4812ME	300 mL with ME25 MCE membrane 0.45 µm white gridded gamma irradiated	20
4851	100 mL with Supor PES membrane 0.2 µm white gridded gamma irradiated	40
4853	300 mL with Supor PES membrane 0.2 µm white gridded gamma irradiated	20
4750	100 mL with Supor PES membrane 0.45 µm white plain gamma irradiated	40
4751	300 mL with Supor PES membrane 0.45 µm white plain gamma irradiated	20

¹ 100 mL funnels: packaged 10 individually bagged funnels per overpack bag, 4 overpack bags per box.

² 300 mL funnels: packaged 5 individually bagged funnels per overpack bag, 4 overpack bags per box.

Related products

Product code	Description	Qty./Pkg.
4889	Place manifold (quantity 3), including valves (quantity 3), end cap (quantity 1), and hose barb cap (quantity 1)	1 set
4701	Autoclavable funnel adapter	3
82728N	No. 8 rubber stopper	5
4890	MicroFunnel filter funnel adapter	3
4892	Standard adapter	3
4959	Elongated standard adapter	3

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