



# Microfil<sup>®</sup> S Filtration Devices

## **Ready-to-use sterile devices for microbiological testing of pharmaceutical water**

- ▶ *Sterile, individually packaged for convenience and reliability*
- ▶ *Protective lid reduces external contamination risk*
- ▶ *Pre-assembled to speed sampling and shorten preparation*
- ▶ *Easy-to-remove funnel and membrane reduces test time*

Microfil S devices streamline process water sampling, offering a convenient monitoring method to detect contamination related problems easily and reliably.

### **Fast and Easy Microbiological Testing**

Microfil S devices are pre-assembled and individually packaged to provide a fast and dependable alternative to conventional multi-step methods. These pre-sterilized devices combine a funnel, protective lid, and filtration support so routine microbiological testing is fast and easy. No membrane handling prior to filtering. No filter holders, funnels and attachments to assemble and sterilize. No sterilizing the filter support after each filtration.

### **New Packaging Simplifies Use**

Easy-open blister packs protect and maintain Microfil S device sterility. Guaranteed sterile at the time of use, simply peel back the protective cover, remove the device and sample. The device's "open and use" design ensures consistent reliable results.

### **Protective Lid Reduces Contamination Risk**

The versatile lid incorporates a snap-fit closure that protects the sample two ways. During filtration, operators may lightly place the lid on top of the funnel rim to shield the sample from external contamination. A tight lock on the Microfil S funnel lip, prevents spillage if the device is accidentally tipped on its side.

### **No Leaks or Sample Bypass**

When traditional filter holders are not assembled correctly, the holders can leak, or worse, can allow sample to bypass the filter. Microfil S filtration devices come fully assembled with the funnels attached to the filter support using our unique "push fit" seal. This patented technology ensures a perfect seal between the membrane, funnel, and support without clamps or O-rings.

## User-Friendly, Disposable Units

Each device comes with its own base designed to securely seal onto a number 8 stopper or a vacuum syringe. Special cut-outs on the base accommodates most hand vacuum syringes.

## Easy-to-Remove Funnel and Membrane

Removing the membrane after sampling is easy. A good grip on the support with one hand is all that's needed to push off the funnel where it meets the base, allowing membrane access. The Microfil S filter support has a curved edge, so you can easily remove the membrane.

## Ensures Consistent Recoveries

Microfil S devices ensure uniform recovery of microorganisms. The funnel's smooth, hydrophobic surface repels aqueous sample residues to ensure that microorganisms are collected on the membrane, not on the walls of the funnel. The convex shape of the support eliminates pleating and distortion of the membrane due to expansion, so contact between the membrane and the surface of the medium is uniform. Three membrane selections allow versatility for your specific application.

## Conforms to International Standards

The Microfil S device complies with USP/EP guidelines. The device is supplied with a Certificate of Quality that demonstrates that the device has been quality control tested with Pharmacopoeia organisms and demonstrates acceptable growth.

### Four Steps to Faster, Easier Microbiological Monitoring



Microfil S device is provided sterile in a convenient peel back blister pack.



Place device onto a standard, #8 stopper, pour sample, and apply vacuum.



After filtration, remove the funnel – you only need one hand – and discard it. It's recyclable.



Place membrane onto solid or liquid medium and incubate. Discard the base. It's recyclable.

Note: Microfil S unit can be fitted on vacuum hand syringes.

## Specifications

### Materials of Construction

<i>Funnel</i>	Hydrophobic polypropylene
<i>Base</i>	Acrylonitrile Butadiene Styrene (ABS)
<i>Membrane Filters</i>	0.45 $\mu\text{m}$ , Mixed cellulose ester (MCE) 0.45 $\mu\text{m}$ , Durapore® membrane, (Polyvinylidene fluoride) 0.22 $\mu\text{m}$ , Mixed cellulose ester (MCE)
<i>Mesh Spacer</i>	Polypropylene
<i>Lid</i>	Polyethylene Terephthalate (PET)

### Descriptions

<i>Funnel</i>	<i>Height:</i>	96 mm
	<i>Diameter:</i>	105 mm
	<i>Weight:</i>	12 g
	<i>Graduations:</i>	20, 50, 100 mL; $\pm 5\%$ accuracy
<i>Membrane Filter</i>	<i>Diameter:</i>	47mm
	<i>Gridding:</i>	Ink jet grid pattern
	<i>Wetting:</i>	Complete wetting < 5 seconds (initial) Complete wetting < 15 seconds (throughout shelf life)
	<i>Thickness:</i>	115–180 $\mu\text{m}$
	<i>Filtration area:</i>	9.6 $\text{cm}^2$
<i>Base</i>	<i>Height:</i>	58 mm
	<i>Diameter:</i>	78 mm
	<i>Weight:</i>	7.4 g
	<i>Outlet connection:</i>	Luer male
	<i>Color:</i>	White
<i>Mesh Spacer</i>	<i>Diameter:</i>	33.4 mm
	<i>Thickness:</i>	0.75 mm

## Ordering Information

Product Description	Catalogue. No.
Microfil S Filtration Device, 24/box: Pre-sterilized, funnel, base, and 47 mm membrane filter; individually packaged, one device per blister pack	
0.45 µm, MCE	MVHA WGS 24
0.45 µm, Durapore membrane	MVHV WGS 24
0.22 µm, MCE	MVGS WGS 24

### To Place an Order or Receive Technical Assistance

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