SARTORIUS

Product Datasheet

Biosart® 100 Monitors

Ready-To-Use Sterile Filtration Units for Germ Count Determination

Colony Count

The membrane filtration method is the suitable technique for microbiological analysis of beverages, water, cosmetics and foods.

The use of ready-to-use disposable units is optimal for these applications. The membrane filtration method is worldwide accepted and complies with International Standards.

Description

Biosart® 100 Monitors have been specifically designed for the detection and enumeration of microorganisms in beverages, cosmetics, foods, water and other liquids. These sterile disposables with an incorporated membrane filter and cellulose pad are ready to use. After filtration, just remove the 100 ml funnel to convert the Monitor into a petri dish eliminating the need for membrane manipulation. Culture media for wetting the pad are available in individually sterilized, convenient plastic ampoules.

Biosart® 100 Monitors are ready-to-use filter units designed to be placed onto the bases of a vacuum manifold, eliminating the cleaning and sterilization required of reusable funnels.

High Flow membranes

Biosart® 100 Monitors are also available with the new 0.45 ìm High Flow membranes. The special pore structure allows shorter filtration times due to 30% higher flow rates. Especially E. coli shows best growth promotion on High Flow Membranes.

Some of the advantages you will benefit from when using Biosart® 100 Monitors:

Superior performance

- High flow rate
- High total throughput

Safe & reliable

- Sterile or individually, sterile packaged
- Consistently recovery
- Membranes available in various colors

Economical

- Ready to connect and easy to use
- Minimal amount of equipment needed

Specifications

Materials	
Housing	Polystyrol
Membrane filter	Cellulose Nitrate (Cellulose Ester) Regenerated Cellulose
Plug and adapter	Polyethylene
Pad	Cellulose
Capacity	100 ml, 10 ml graduations
Pore size	0.2 µm, 0.45 µm or 0.8 µm
Filter diameter	47 mm
Filtration area	14.5 cm^2
Max. operating pressure	Vacuum only
Outlet	6.5 × 1.5 mm
Lot certificates	Recovery rate, sterility and specifications

Available Types	
16401	White Cellulose nitrate membrane with black grid
16402	Green Cellulose nitrate membrane with dark green grid
16403	Gray Cellulose nitrate membrane with white grid
16404	White membrane, Regenerated cellulose

Order Information

Pore size	Membrane filter color color | grid	Order No.
Biosart® 100 Monitors, 100 ml, 47 mm, individually packaged, sterile, 48 units		
0.2 µm	Cellulose Nitrate white | black	16401-47-07--ACK
0.45 µm	Cellulose Nitrate white | black	16401-47-06--ACK
0.45 µm	Cellulose Nitrate green | dark green	16402-47-06--ACK
0.45 µm	Cellulose Nitrate gray | white	16403-47-06--ACK
Biosart® 100 Monitors, 100 ml, 47 mm, packaged in trays, sterile, 48 units		
0.2 µm	Cellulose Nitrate white | black	16401-47-07----K
0.45 µm High Flow	Cellulose Nitrate white | black	16401-47-H6----K
0.45 µm	Cellulose Nitrate white | black	16401-47-06----K
0.45 µm	Cellulose Nitrate green | dark green	16402-47-06----K
0.45 µm	Cellulose Nitrate gray | white	16403-47-06----K
0.8 µm	Cellulose Nitrate gray | white	16403-47-04----K
0.45 µm	Regenerated Cellulose white	16404-47-06----K
Biosart® 100 Monitors, 100 ml, 47 mm, sterile, 48 units		
0.45 µm High Flow	Cellulose Nitrate white | black	16401-47-H6-V--K
0.45 µm	Cellulose Nitrate white | black	16401-47-06-V--K
0.45 µm	Cellulose Nitrate gray | white	16403-47-06-V--K
0.8 µm	Cellulose Nitrate gray | white	16403-47-04-V--K
Biosart® 100 Monitors, 100 ml, 47 mm, sterile, 48 units, membrane fixed in monitor		
0.45 µm High Flow	Cellulose Nitrate white | black	16401-47-H6-VWMK
0.45 µm	Cellulose Nitrate white | black	16401-47-06-VWMK
0.45 µm High Flow	Cellulose Nitrate gray | white	16403-47-H6-VWMK
0.45 µm	Cellulose Nitrate gray | white	16403-47-06-VWMK

Biosart® 100 Monitor Adapters and Membrane Lifter		
Description	**Adaptation**	**Order No.**
Biosart® 100 Adapter, PP	At Microsart® Manifolds	16424
Biosart® 100 Membrane-Lifter	Transfer of the membrane to agar plate	16417

Microsart® Manifolds made of high-grade stainless steel, with venting filter and vacuum hose	
Description	**Order No.**
Microsart® 1-branch, stainless steel, with adapter for Biosart®monitors	168M1-BS100
Microsart® 2- branch stainless steel manifold, with adapter for Biosart® monitors	168M2-BS100
Microsart® 3- branch stainless steel manifold, with adapter for Biosart® monitors	168M3-BS100
Microsart® 6- branch stainless steel manifold, with adapter for Biosart® monitors	168M6-BS100

Electrical laboratory vacuum pumps	
Description	**Order No.**
Microsart® E-jet Transfer Pump, 100-230 V | 50-60 Hz	166MP-4
Microsart® Mini-vac, 230 V, 50 Hz	16694-2-50-06
Microsart® Mini-vac, 115 V, 60 Hz	16694-1-60-06
Microsart® Maxi-vac, 230 V, 50 Hz	16694-2-50-22
Microsart® Maxi-vac, 115 V, 60 Hz	16694-1-60-22

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