



# Biosart® 100 Monitors

Microbiological and Analytical Filtration Units

Colony Count



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 meet ISO 7704
- Membranes available in various colors
- Without any hydrophobic adhesive areas

**Economical**

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

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 µm 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.

**Specifications**

**Materials**

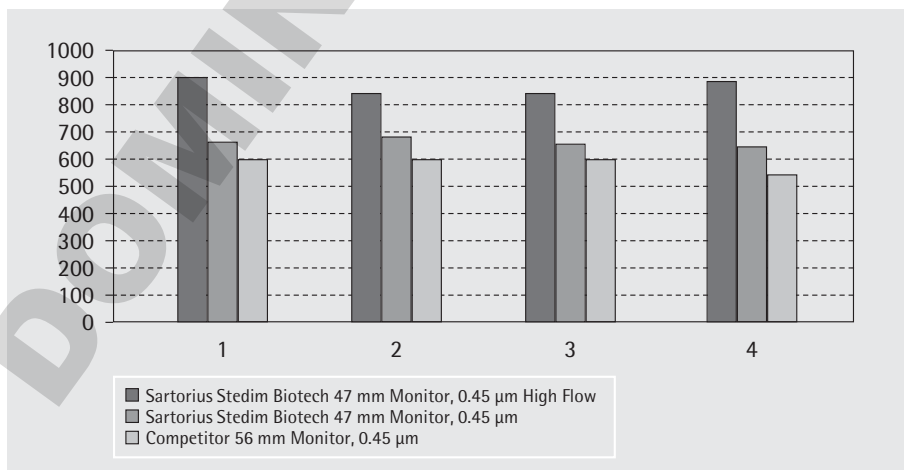
Housing	Polystyrol
Membrane filter	Cellulose Nitrate (Cellulose Ester) Regenerated Cellulose
Plug and adapter	Polyethylene
Pad	Cellulose

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 <sup>2</sup>
Max. operating pressure	Vacuum only
Outlet	6.5 × 1.5 mm
Lot certificates	Recovery rate, sterility and specifications

**Available Types**

16401	with membrane with black grid
16402	green membrane with dark green grid
16403	gray membrane with white grid
16404	white membrane

**Flow Rate Comparison RO-Water**



## Order Information

Pore size	Membrane filter* color color grid	Order No.
<b>Biosart® 100 Monitors, 100 ml, 47 mm, individually packaged, sterile, 48 units</b>		
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

<b>Biosart® 100 Monitors, 100 ml, 47 mm, packaged in trays, sterile, 48 units</b>		
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

<b>Biosart® 100 Monitors, 100 ml, 47 mm, sterile, 48 units</b>		
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

<b>Biosart® 100 Monitors, 100 ml, 47 mm, sterile, 48 units, membrane fixed</b> - available only in the U.S. and Canada -		
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, silicone	16840 or 16841	16414
Biosart® 100 Adapter, PP	50 mm supports	16415
Biosart® 100 Adapter, PP	56 mm supports   vacuum pumps	16416
Biosart® 100 Membran-Lifter, ABS	transfer of the membrane	16417

### Combisart® individual and multi-branch bases, made of high-grade stainless steel

Description	Order No.
Combisart® individual base, stainless steel, with frit (50 mm)	16841
Combisart® 1- branch stainless steel manifold, without frits	16844
Combisart® 3- branch stainless steel manifold, without frits	16842
Combisart® 6- branch stainless steel manifold, without frits	16843
Combisart® base support with frit (50 mm), stainless steel	16840

### Electrical laboratory vacuum pumps

Description	Order No.
Microsart® e.jet Transfer Pump, 100-230 V   50-60 Hz	166MP-3
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

Sartorius Stedim Biotech GmbH  
August-Spindler-Strasse 11  
37079 Goettingen, Germany

Phone +49.551.308.0  
Fax +49.551.308.3289  
www.sartorius-stedim.com

USA Toll-Free +1.800.368.7178  
UK +44.1372.737159  
France +33.442.845600  
Italy +39.055.63.40.41  
Spain +34.90.2110935  
Japan +81.3.3740.5407

Specifications subject to change  
without notice. Printed and copyrighted  
by Sartorius Stedim Biotech GmbH  
W · G  
Publication No.: SL-2062-e10102  
Order No.: 85034-538-83  
Ver. 10 | 2010