

Membrane Filtration Microbiology



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Hardy Diagnostics



Our Advantage

Hardy Diagnostics manufactures over 3,500 prepared culture media products and provides a complete selection of over 13,000 microbiology supply items. Founded in 1980, Hardy Diagnostics has grown to service over 9,000 microbiology laboratories within the United States and throughout the world.

In addition to manufacturing culture media, Hardy Diagnostics is also an authorized distributor for over 80 other fine diagnostic manufacturers. Among them are Sartorius, Denka Seiken, Hygiene, Copan, Puritan, Medical Chemical, and Microbiologics.

• USP Compliant Quality Control

For items designated USP, Hardy Diagnostics quality control testing is performed in accordance with the requirements set forth in USP/NF, Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests <61>, Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms <62>, and Sterility Tests <71>. Rockville, MD: US Pharmacopeial Convention.

• Quality Control Program

All of the products manufactured by Hardy Diagnostics are tested to the highest standards for quality and performance. To assist our industrial customers with ISO and cGMP requirements, a "Certificate of Analysis" is available online.

• ISO Certified

The Quality management system of the Hardy Diagnostics' California and Ohio manufacturing facilities has been certified to ISO 13485, a quality standard specifically for medical device manufacturers.



• Online Catalog and Ordering



To save time, you can quickly locate any of our products, including current pricing, at our website www.HardyDiagnostics.com. Ordering online is easy and allows you to save a list of your "favorite" products, view past orders, and receive order status email notifications.

• Custom Product Manufacturing

Hardy Diagnostics is willing and able to manufacture products specific to your needs. Special container and formula requests are welcome. Simply contact our Director of Sales for details at (800) 266-2222 ext. 5696.

• Two Manufacturing Plants

Hardy Diagnostics is the only culture media company with bi-coastal manufacturing plants that provide our customers with the additional security of product availability.



Sterility Testing <USP 71>

Sterisart® Universal Pump Sterility Testing System

USP requires the complete sterility of pharmaceutical products, such as parenterals, that are injected into the blood stream or that otherwise enter the body below the skin surface.

The preferred method for sterility testing is the membrane filter method using a closed sterility test system. The Sterisart® Universal Pump is a peristaltic pump made of stainless steel and is equipped with appropriate features for attaching a Sterisart® sterility test canister (Closed System).

After the Sterisart® canisters have been positioned and the sterility test system spike has been inserted into the sample container, the pump is started. The pump draws liquid from the sample container into the specially designed double tubing, distributing the liquid equally to both Sterisart® canisters. Similarly, the pump then flushes the Sterisart® canisters with rinse liquid such as Fluid A (Cat. no. U109). Finally, the pump fills the two Sterisart® canisters with culture media, such as Tryptic Soy Broth 100ml (Cat. no. U46) or Fluid Thioglycollate Medium 100ml (Cat. no. U84). The Sterisart® canisters are then sealed and incubated.

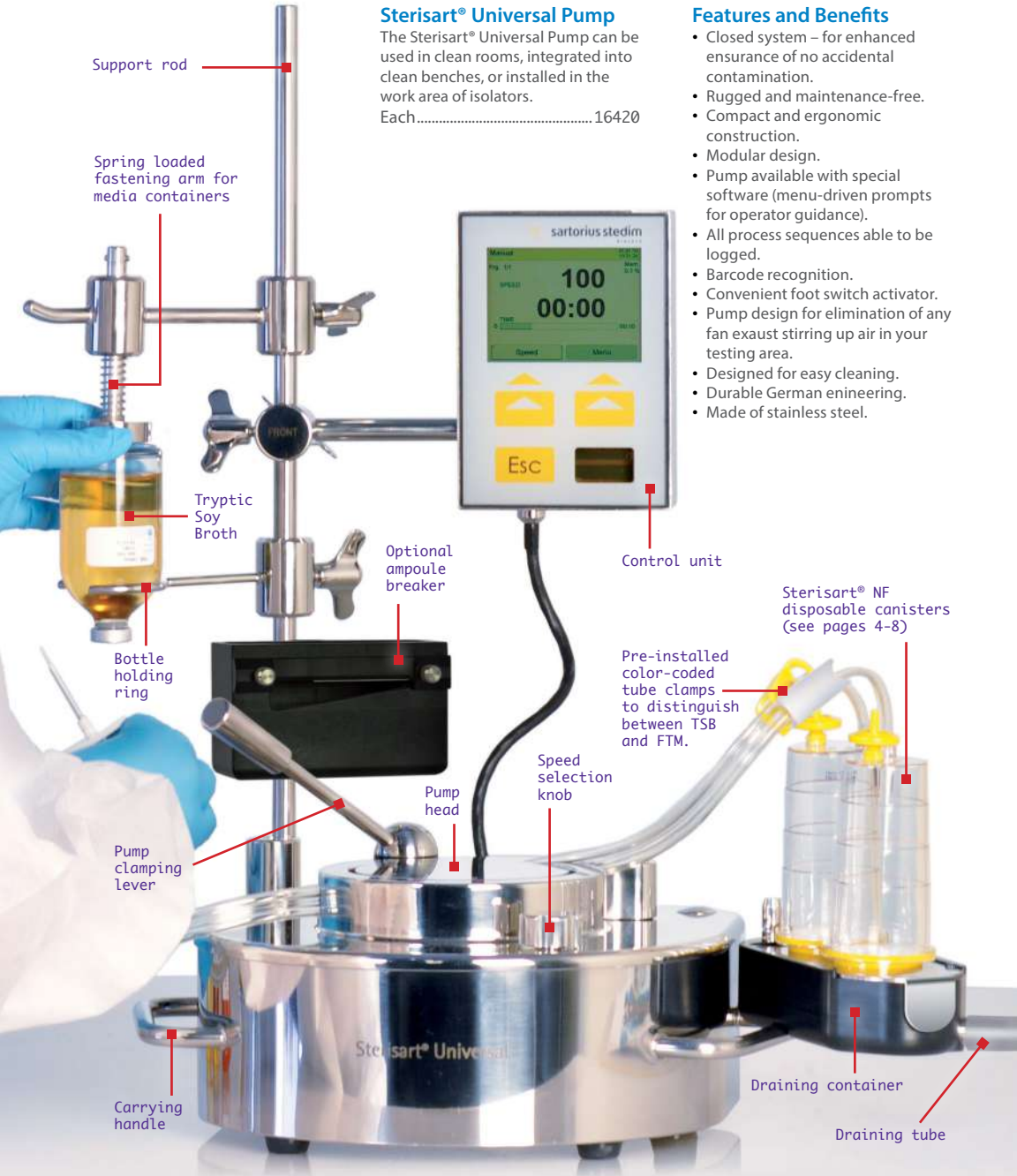


Sterisart® Universal Pump

The Sterisart® Universal Pump can be used in clean rooms, integrated into clean benches, or installed in the work area of isolators. Each..... 16420

Features and Benefits

- Closed system – for enhanced ensurance of no accidental contamination.
- Rugged and maintenance-free.
- Compact and ergonomic construction.
- Modular design.
- Pump available with special software (menu-driven prompts for operator guidance).
- All process sequences able to be logged.
- Barcode recognition.
- Convenient foot switch activator.
- Pump design for elimination of any fan exhaust stirring up air in your testing area.
- Designed for easy cleaning.
- Durable German engineering.
- Made of stainless steel.



Support rod

Spring loaded fastening arm for media containers

Tryptic Soy Broth

Bottle holding ring

Pump clamping lever

Carrying handle

Optional ampoule breaker

Pump head

Speed selection knob

Control unit

Pre-installed color-coded tube clamps to distinguish between TSB and FTM.

Sterisart® NF disposable canisters (see pages 4-8)

Draining container

Draining tube

Sterisart® NF Canisters for Sterility Testing

Disposable Sample Canisters and Adapters for use with Sterisart® Universal Pump

For sterility testing in isolators. Individually sterile, double-packaged, gamma irradiated, needles made of stainless steel.



Sterisart® NF Canisters can be ordered with or without a needle port septum for sub-culturing of positive results.



Pre-installed color-coded tube clamps to distinguish between TSB and FTM.



VHP resistant packaging.



Stainless steel septum needle. Other attachments are available.



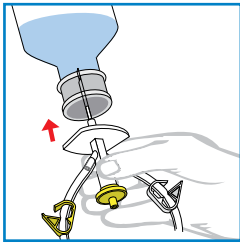
Disposable Sample Canisters and Adapter descriptions on pages 5-9

Sterisart® NF Canisters are available with a variety of needles, depending on your sample type!

Sterisart® NF Canister for Closed Sample Containers with Septum

The 16466 is equipped with a stainless steel dual-needle spike (built in venting), which is designed for closed sample containers. The flammable spike allows changing sample containers while minimizing the risk of contamination. Unlike plastic needles, metal needles do not snap off when tilted under pressure. Additionally, the large protective plate on the spike makes it easy to pierce the stoppers. The plate construction also helps prevent injury to fingers. The 4cm length dual-needle allows the spike to be used for a variety of closures.

Application: LVPs* in closed glass containers with septum.
 10/pk16466GBD
 10/pk (septum version)16466GSD

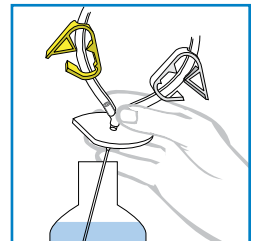


Sterisart® NF Canister for Open Containers

The 16467 is designed for use with open containers, such as ampoules or collapsible plastic bags that do not require venting when samples are removed. The thickness and length of the individual needle enables samples to be drawn evenly from exceptionally small ampoules with narrow openings. In addition, the length of the needle makes it easy to remove samples from plastic bags without piercing the bag itself. The stainless steel needle can be briefly flamed, minimizing the risk of contamination when changing sample containers.

Application: LVPs* or SVPs** in open containers, i.e. glass ampoules, glass vials, collapsible bags.
 10/pk16467GBD
 10/pk (septum version)16467GSD

*Large Volume Parenterals
 ** Small Volume Parenterals

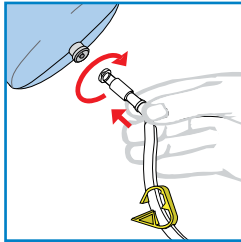


Sterisart® NF Canister for Collapsible Medical Devices with Luer or Luer Lock Connectors

The 16468 is equipped with a male luer connector onto which a detachable double female luer lock adapter is fitted. With this system, it is possible to draw samples from collapsible medical devices/bags fitted with either female luer lock or male luer lock connectors. After the sample is removed from the collapsible bag, the double luer lock adapter is disconnected and replaced by the supplied 6cm needle for drawing rinsing solution and culture media. A venting needle is included.

Application: Medical devices, i.e. tubing systems and bags with luer or luer lock connectors.

10/pk.....16468GBD



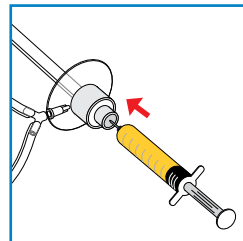
Sterisart® NF Canister for Pre-filled Syringes

The 16469 is designed for sterility testing liquids in pre-filled syringes of various sizes (versions with and without needles). The system allows the exterior of needles attached to syringes to be sterility tested. The special retainer on the double tubing system is used as an adapter for attaching pre-filled syringes. The contents of these syringes are drained into the Sterisart® system and simultaneously mixed with rinsing solution drawn through a dual-needle metal spike. The mixed liquid is pumped in equal volumes into the two Sterisart® containers and filtered.

Application: Pre-filled syringes with or without needles.

10/pk16469GBD

10/pk (septum version).....16469GSD

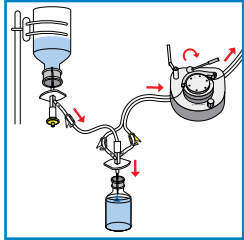


Sterisart® NF Canister for Easy-To-Dissolve Powders in Closed Glass Vials with Septum

The 16475 is designed for sterility testing easy-to-dissolve powders (e.g. lyophilized antibiotics in powder form). A dual-needle metal spike with a vent filter is used to remove dilution solution from closed vials. A shorter dual-needle metal spike is used to add dilution solution and to dissolve the powder in the sample container (e.g. lyophilized antibiotic powder).

Application: Soluble powders, lyophilisates, and liquid antibiotics in closed glass vials with septum.

10/pk16475GBD
 10/pk (septum version)16475GSD

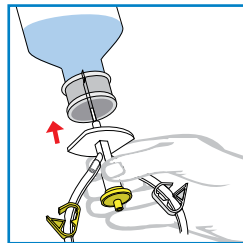


Sterisart® NF Canister for Closed, Unvented Sample Containers

The 16476 is designed for sterility testing of closed, unvented sample containers. The 2.4cm long double-metal needle (built in venting) considerably reduces the dead volume, which can remain in the sample container during sampling. The resulting sample is pumped in equal volumes into the two Sterisart® containers and filtered. Unlike plastic needles, metal needles do not snap off when tilted under pressure. This benefit, together with the large protective plate on the spike, makes for easy stopper piercing and helps prevent injury to fingers by preventing breakage or slippage.

Application: SVPs** in closed glass vials with septum.

10/pk16476GBD
 10/pk (septum version)16476GSD

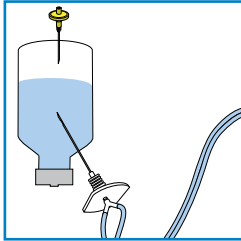


** Small Volume Parenterals

Sterisart® NF Canister for Plastic Containers

The 16477 is designed for sterility testing of liquids in plastic containers. The unvented, non-coring needle with solid pointed tip and side opening minimizes clogging by particles when piercing the plastic container. The sample is pumped in equal volumes into the two Sterisart® containers and filtered. The enclosed venting needle guarantees venting of the container during sample transfers, rinsing procedures, and media transfers.

Application: LVPs*, SVPs**, and eye drops in closed plastic containers/vials, ampoules, or blow-fill-seal packs.
 10/pk.....16477GBD



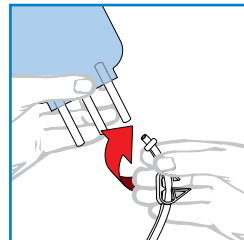
*Large Volume Parenterals
 ** Small Volume Parenterals



Sterisart® NF Canister for Containers with Male Luer Lock Connectors

The 16478 is equipped with a dual-needle metal spike with a vent filter connected to the Sterisart® NF system by a single hose and Y-distributor. A second shorter hose is attached to the other end of the Y-distributor fitted with a female luer lock connector. Using this connector, it is possible to draw samples from collapsible medical devices like bags fitted with male luer lock connectors. The dual-needle metal spike with vent filter is used to transfer rinsing solutions and/or nutrient media from closed vials.

Application: Medical devices, i.e. containers/bags with male luer lock connectors.
 10/pk.....16478GBD



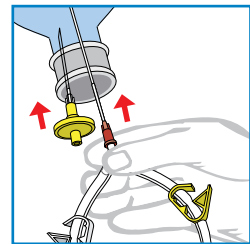
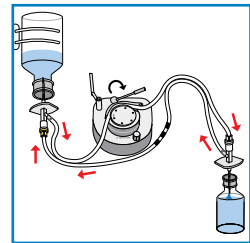


Sterisart® NF Gamma Tubing System

The 16470 is designed for dissolving and diluting powders with exceptionally low solubility. When used in combination with Sterisart® systems 16466 and 16467, the 16470 allows sterility testing of these powders in closed, unvented vials. The tubing system consists of a 3.6cm dual-needle metal spike (yellow color-coded) and a 2.3cm metal dual-needle spike, which are connected with each other by double tubing. Half the length of the double tubing is separated into single tubes identified by plastic ring sheaths.

Application: Difficult-to-dissolve powders in closed glass vials with septum (non- expanded).

10/pk16470GBD



Sterisart® Venting Needle

4cm, stainless steel, gamma irradiated.

Application: Sterile venting of containers with rinsing solution and nutrient media (TSB, FTM).

50/pk16596HMK

Combisart® Filter Station

Membrane Filtration Manifolds

Vented, Individual and Multi-Branch Systems

The Combisart® system enables you to select the optimal hardware and consumables for your needs in microbiological analysis and quality assurance. At the heart of the Combisart® system is a high-grade stainless steel manifold designed to accommodate most types of filter holders and funnels.

Biosart® 250ml Funnel (autoclavable), Cat. no. 1640725ACK

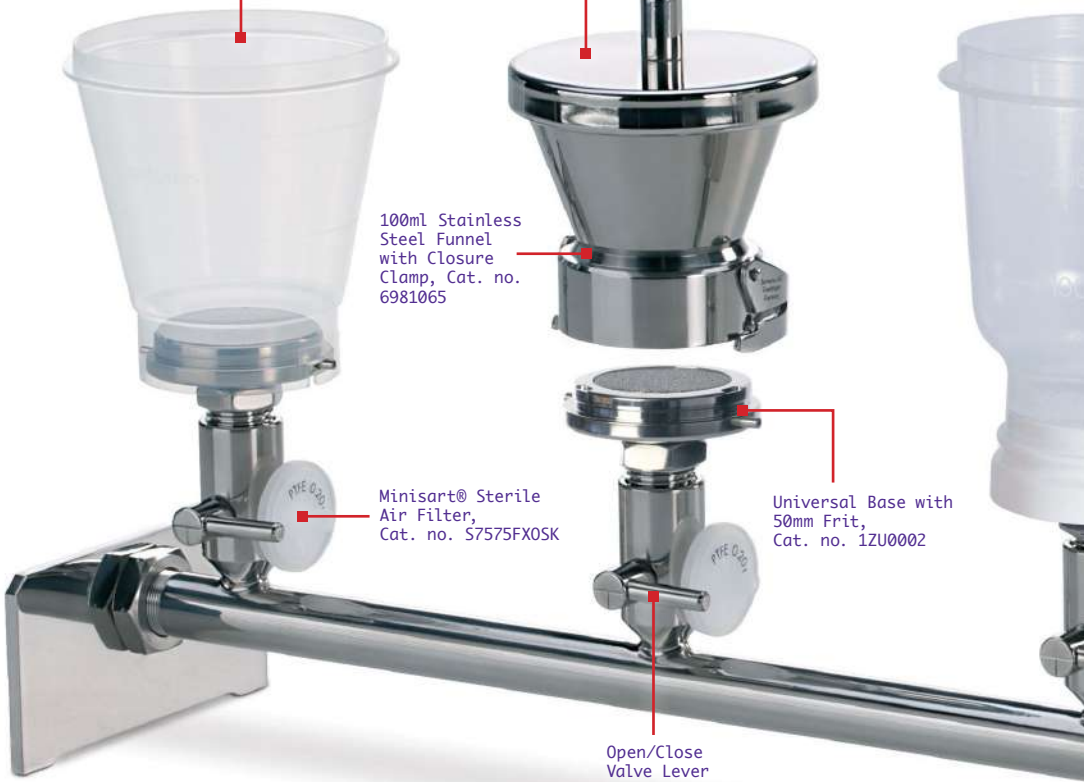
100ml Stainless Steel Funnel Lid, Cat. no. 6981063

100ml Stainless Steel Funnel with Closure Clamp, Cat. no. 6981065

Minisart® Sterile Air Filter, Cat. no. S7575FX0SK

Universal Base with 50mm Frit, Cat. no. 1ZU0002

Open/Close Valve Lever



| Description | Cat. no. |
|-----------------------------|----------|
| 1-branch manifold | 16844 |
| CombiJet™ 2-branch manifold | 16848CJ |
| 3-branch manifold | 16842 |
| 6-branch manifold | 16843 |



1-branch manifold



3-branch manifold



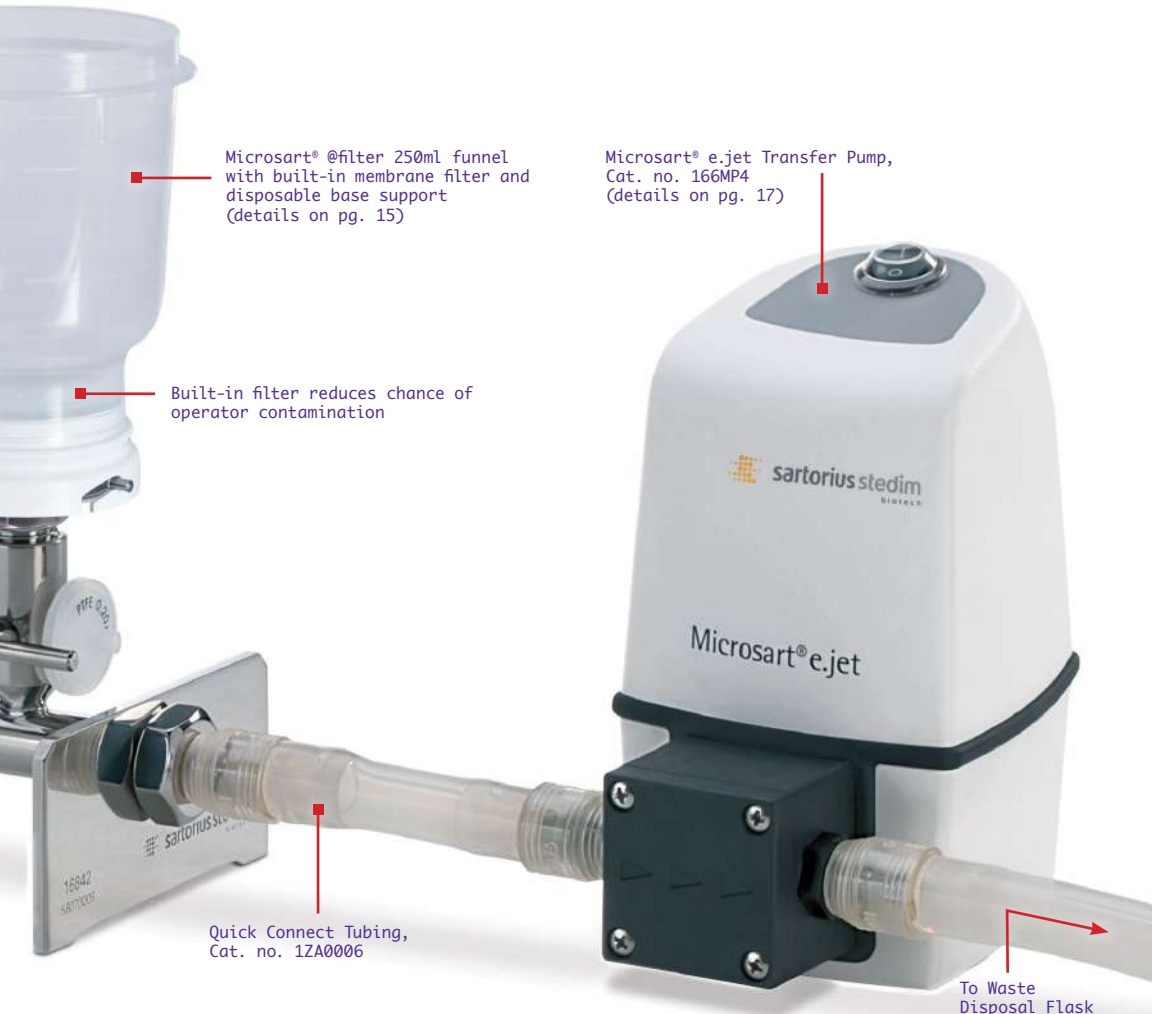
2-branch manifold



6-branch manifold

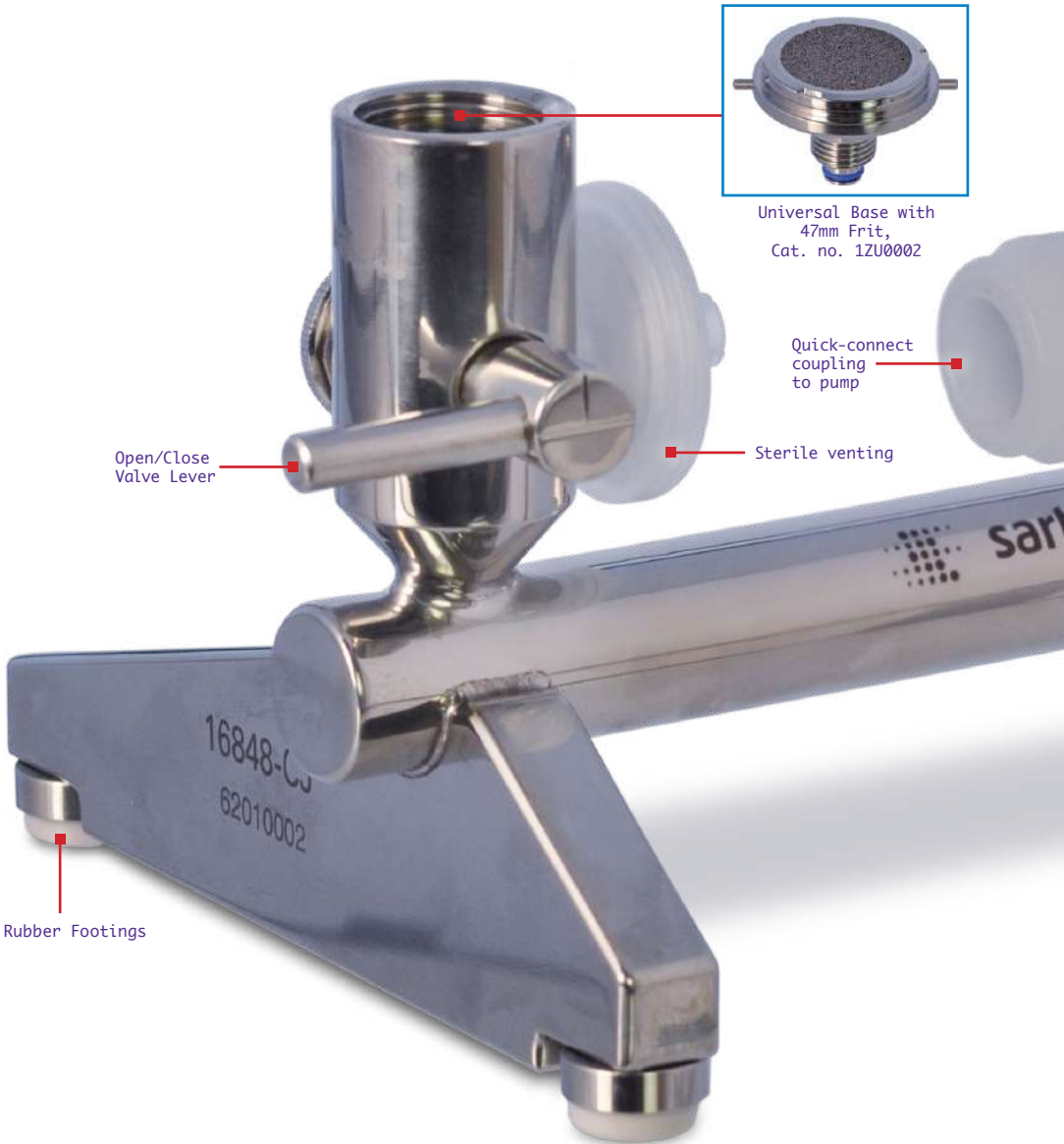
Features and Benefits

- Each filter station can be individually vented, ruling out secondary contamination of the underside of the filter.
- Easy for left or right-handed users, as funnels can be positioned to suit the individual user.
- Switch from reusable filter holders to disposable units without requiring new equipment.
- Base can be easily unscrewed, exposing all areas of the manifold to sterilization.



Microsart® Combi.jet 2-Branch Manifold

Combi.jet is a 2-branch stainless steel manifold for microbiological analysis. This manifold is specifically designed for use with the Microsart® e.jet pump. It can easily be connected and disassembled by the innovative quick connection coupling and nipples. Compact in size, Combi.jet is perfect for small, clean bench work stations. Combi.jet requires two stainless steel universal bases (Cat. no. 1ZU0002) to attach different funnel systems. Each..... 16848CJ



Universal Base with
47mm Frit,
Cat. no. 1ZU0002

Quick-connect
coupling
to pump

Sterile venting

Open/Close
Valve Lever

Rubber Footings



e.jet Transfer Pump



Sterile venting

3 way valve

Rubber footing

Features and Benefits

- Compact design, small footprint, ideal for pharmaceutical applications.
- Sterile venting with two stainless steel three-way valves.
- Vacuum can be individually controlled for each filter holder.
- Each filter station can be vented separately.
- Easy to clean and sanitize.
- Smooth and reliable filtration functionality.
- No need for suction flasks or water traps.
- Made of high quality stainless steel.
- Accommodates various funnel types.

Combisart® Stainless Steel Reusable Funnels

For use with Combisart® Filter Station Manifolds



Stainless Steel Lid for 100ml Funnel
 Each.....6981063



Stainless Steel Lid for 500ml Funnel
 Each.....6981001



Lid Seal for 100ml Stainless Steel Funnel
 Each.....6981064



Lid Seal for 500ml Stainless Steel Funnel
 Each.....6981003



100ml Stainless Steel Funnel with Closure Clamp
 Each.....6981065



500ml Stainless Steel Funnel with Closure Clamp
 Each.....6981002

Microsart® @ Disposable Funnel System

For use with Combisart® Filter Station Manifolds

The Microsart® @ Funnel/Filter System combines a sterile, ready-to-use funnel and a built-in gridded membrane filter in one unit. The optimized design of Microsart® @ filter permits thorough rinsing of the system subsequent to filtration with no liquid retained in the filter funnel. Specifically developed for the detection and enumeration of microorganisms from pharmaceutical products.

Features and Benefits

- Ready-to-use.
- Sterile packed in bags.
- **Built-in membrane filter to reduce accidental contamination.**
- Funnel and a gridded membrane filter in one unit.
- Marked graduations for accurate sample volumes.
- Funnel made of polypropylene.

100ml volume, 47mm filter diameter, 0.45µm pore size, filter color: white with black grid.

60/pk..... 16D0110H6BL

100ml volume, 47mm filter diameter, 0.45µm pore size, filter color: green with dark green grid.

60/pk..... 16D021006BL

250ml volume, 47mm filter diameter, 0.45µm pore size, filter color: white with black grid.

48/pk..... 16D0125H6BK

250ml volume, 47mm filter diameter, 0.45µm pore size, filter color: green with dark green grid.

48/pk..... 16D022506BK

Lid for Microsart® Funnels

For use with Microsart® and Microsart® @ 100ml and 250ml funnels.

100/bx 1ZSFK0007



Microsart® Funnel Dispenser

For reliable removal of sterile Microsart® and Microsart® @ 100ml and 250ml funnels. Each..... 16A08

Microart® Disposable Funnel

For use with Combisart® Filter Station Manifolds

Microart® Funnels are sterile plastic funnels that allow quick performance of filtrations required for routine testing.

Features and Benefits

- Reliable results – use a new, sterile funnel for each test, avoiding possible cross contamination.
- Time-saving – just change the funnel rather than spending time sanitizing it.
- Simple handling – no more holding hot funnels.
- Sterile-packed.
- Funnel made of polypropylene.
- Packaged in sleeves.

100ml volume, 100/pk16A0710N

250ml volume, 96/pk.....16A0725N

Lid for Microart® Funnels

For use with Microart® and Microart® @ Funnel/Filter 100ml and 250ml.

100/bx 1Z5FK0007



250ml



100ml

Microart® Funnel Dispenser

For reliable removal of sterile Microart® and Microart® @ 100ml and 250ml funnels. Each..... 16A08



Microart® e.jet Transfer Pump with Quick Connection

The Microart® e.jet is a laboratory vacuum pump able to create sufficient vacuum filtration for transferring the filtered liquid directly to waste. This second generation of Microart® e.jet achieves a better trans-membrane pressure and a higher flow rate. Provides constant flow rates and smooth and reliable filtration.

Microart® e.jet Pump 166MP4

Quick Connect Silicone Tubing
for connecting manifold
with e.jet pump 1ZA0006



Quick Connect Silicone Tubing
for connecting e.jet pump
with receptacle flask 1ZA5007



Enough suction for 1-3 stage manifolds only. Call (800) 266-2222 for a selection of more powerful pumps.



250ml Glass Receptacle Flask Heavy wall, graduated

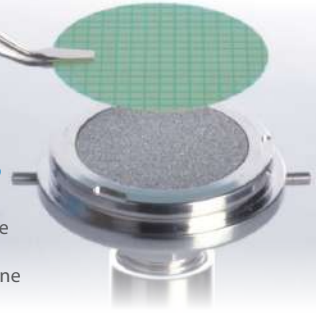
Flask features heavy-duty rim to reduce chipping, white, permanent graduations, and large marking squares. Made from high-quality borosilicate. Borosilicate glass provides uniform wall thickness resulting in the optimum balance between thermal shock resistance and mechanical strength.

- Capacity - 250ml
- Graduation Range - 75 to 250ml
- Graduation Interval - 25ml
- Approximate Height - 86 x 160mm

6/pk 20074250

Gridded Membrane Filters

Cellulose nitrate (cellulose ester) membrane filters are offered in a choice of four different color/grid combinations to suit your specific test application and provide a high-contrast background. For simple evaluation of the results, the grid divides the filtration area into 130 squares, each measuring 3.1mm x 3.1mm. The membrane filters are individually packaged and sterilized and undergo stringent quality assurance testing. The certificate included in every package documents the quality assurance tests as well as the compliance of the 0.45µm membrane filter with ISO 7704. The special pore structure of the new 0.45µm high-flow membrane filters allow shorter filtration times due to higher flow rates and throughputs.



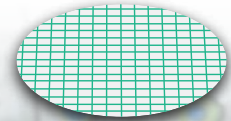
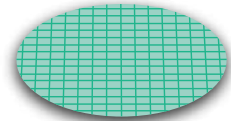
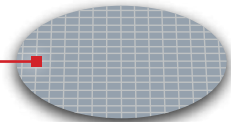
Cellulose Nitrate (CN) Membrane Filter

Individually wrapped on single sheet, sterile packed, 47mm

| Filter Color / Grid | Pore Size | Pack Size | Cat. no. |
|---------------------|------------------|-----------|------------|
| White/black | 0.45µm | 100 | 1140647ACN |
| White/black | 0.45µm High-Flow | 100 | 114H647ACN |
| Gray/white | 0.45µm | 100 | 1300647ACN |
| Green/dark green | 0.45µm | 100 | 1380647ACN |
| White/green | 0.45µm | 100 | 1390647ACN |
| White/green | 0.45µm High-Flow | 100 | 139H647ACN |



Membrane turns black when wet.

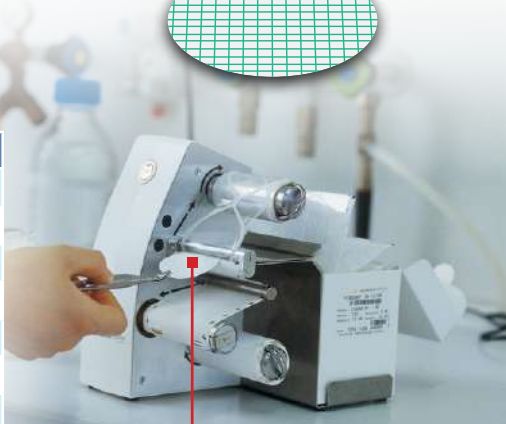


Microsart® e.motion Membrane Filters

- For use with Microsart® e.motion, motion activated filter dispenser.
- Filters are individually sterile-sealed on a band.
- Special pleating and shape of sealing band around membrane filters ensures perfectly flat and uniform dispensing of individual filters.

Individually wrapped on pleated rolls, sterile packed, 47mm

| Filter Color / Grid | Pore Size | Pack Size | Cat. no. |
|---------------------|------------------|-----------|-------------|
| White/black | 0.45µm | 300 | 11406247SCM |
| White/black | 0.45µm High-Flow | 300 | 114H6247SCM |
| White/black | 0.45µm High-Flow | 450 | 114H6247SFM |
| Gray/white | 0.45µm | 300 | 13006247SCM |
| Green/dark green | 0.45µm | 300 | 13806247SCM |
| White/green | 0.45µm | 300 | 13906247SCM |
| White/green | 0.45µm High-Flow | 300 | 139H6247SCM |

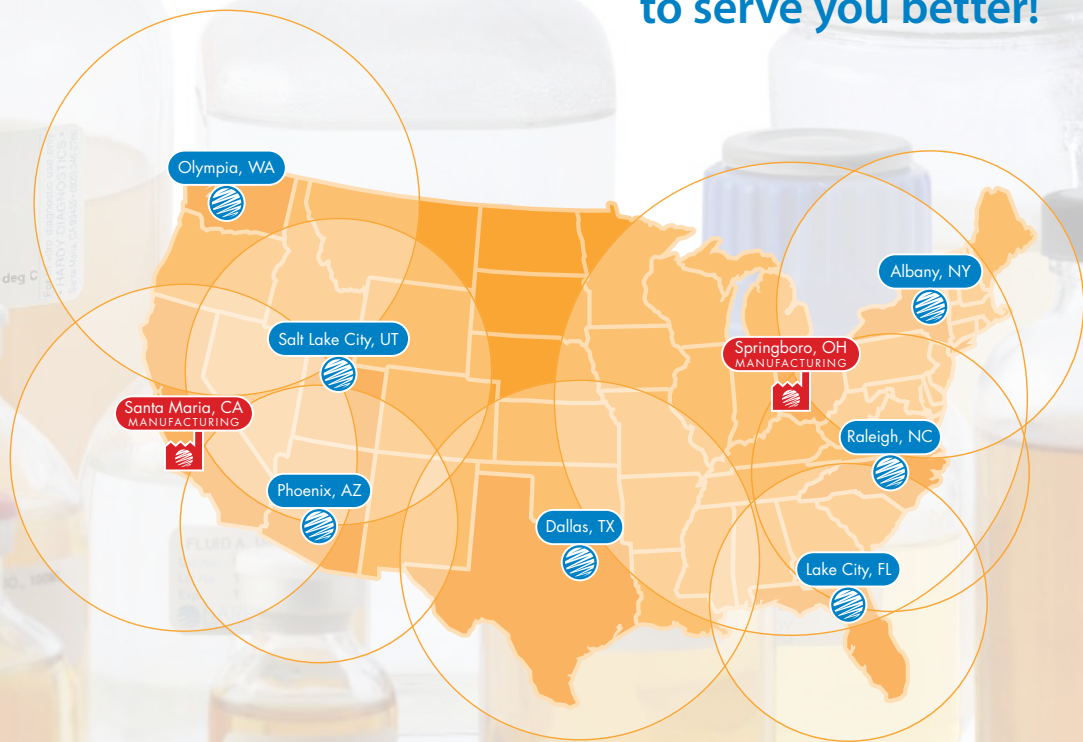


Individually wrapped filters

Now with

9 Distribution Centers and 2 Manufacturing Plants

to serve you better!



Same Day Shipping

Orders placed before 1:30 p.m. for all time zones (except Hawaii and Alaska) are processed and shipped out the same day. Most orders are received the next morning.



Prepared Culture Media (60mm Plates)

A8 Agar

For the selective isolation of *Mycoplasma hominis* and *Ureaplasma urealyticum*. 10/pk..... G02

Barney Miller Agar

For the cultivation of microorganisms significant in the brewing industry. 10/pk..... G93

Corn Meal Agar with Tween®

For the cultivation of fungi. Induces chlamyospore formation by *Candida* spp. 10/pk.....G101

KF Streptococcus Agar

For the selective isolation and enumeration of fecal streptococci (including *Enterococcus*) from water and food samples. 10/pkG276

Lactobacilli MRS Agar with Cyclohexamide

For the selective isolation and cultivation of *Lactobacillus* spp. 10/pk.....G179

m-EI Agar

For the selective chromogenic detection and enumeration of Enterococci in water. 10/pk.....G124

m-Endo LES Agar

For the enumeration of coliforms from water. 10/pk.....G128

m-FC Agar with 1% Rosolic Acid

For the isolation and enumeration of fecal coliforms. 10/pk.....G126

m-HPC (Heterotrophic Plate Count) Agar

For the enumeration of heterotrophic organisms in water. 10/pk..... G95

m-PA Agar

For the cultivation and enumeration of *Pseudomonas aeruginosa* in water. 10/pkG133

m-PA-C Agar

For the selective recovery and enumeration of *Pseudomonas aeruginosa* in water. 10/pk.....G150

m-TEC Agar, Modified

For selective chromogenic differentiation and enumeration of *E. coli* in water. 10/pk.....G106

Nutrient Agar with MUG

For the detection and enumeration of *E. coli* in water. 10/pk.....G114

Orange Serum Agar

For the cultivation and enumeration of aciduric bacteria and fungi by membrane filtration methods. 10/pk..... G91

Potato Dextrose Agar with TA (Tartaric Acid)

For the cultivation and enumeration of fungi. 10/pk..... G94

PPLO Selective Agar

For the selective isolation of pleuropneumonia-like organisms, especially *Mycoplasma pneumoniae*. 10/pk..... G04

PPLO Selective Agar, TAAP

PPLO Selective Agar plus thallium acetate, amphotericin B, and penicillin G to prevent bacterial overgrowth. 10/pk.....G248

Pseudomonas Isolation Agar

For the selective isolation of *Pseudomonas aeruginosa*. 10/pk.....G145

R2A Agar

For the detection of heterotrophic bacteria in water. 10/pk..... G03

Sabdex Agar with Gentamicin and Chloramphenicol

For the selective cultivation of fungi and dermatophytes. 10/pk.....G159

Skim Milk Agar

For the cultivation and differentiation of microorganisms based on proteolytic activity. 10/pk.....G138

SP4 Agar with Arginine

For the selective cultivation and differentiation of *Mycoplasma* species based on the ability to utilize arginine. 10/pk..... G32

SP4 Agar with Glucose

For the selective cultivation and differentiation of mycoplasma including *Mycoplasma hominis*, *Mycoplasma pneumoniae*, and *Ureaplasma urealyticum*. 10/pk..... G21

Tryptic Soy Agar

For use as a general growth medium for the isolation and cultivation of microorganisms. 10/pk.....G151

Universal Beer Agar with Cycloheximide

For the selective isolation and cultivation of microorganisms significant in the brewing industry. 10/pk.....G182

XLT-4 Agar

For the selective isolation of non-typhi *Salmonella* spp. 10/pk.....G277

WL Differential Medium

For the isolation of bacteria in brewing and fermentation processes. 10/pk.....G163

WL Nutrient Agar with Gentamicin and Streptomycin

For the cultivation of yeast and mold in the fermentation process. 10/pk.....G191

Prepared Culture Media (100mm Plates)

Cetrimide Selective Agar, USP

For the selective isolation of *Pseudomonas aeruginosa*. 15x100mm plate, 18ml fill, 10/pk.....G18

Columbia Agar, USP

For the isolation and cultivation of non-fastidious and fastidious microorganisms. 15x100mm plate, 18ml fill, 10/pk.....G250

MacConkey Agar, USP

For the isolation and differentiation of Gram-negative bacteria. 15x100mm plate, 19ml fill, 10/pk.....G603
15x100mm plate, 19ml fill, 100/bx.....G603BX

Mannitol Salt Agar (MSA), USP

For the selective isolation and differentiation of *Staphylococcus* spp. (This product is for laboratory use only; not for human diagnostic use.) 15x100mm plate, 18ml fill, 10/pk.....G602

Pseudomonas Agar F

For the identification of *Pseudomonas aeruginosa* and the detection of fluorescein. 15x100mm plate, 18ml fill, 10/pk.....G198

Pseudomonas Agar P

For the identification of *Pseudomonas aeruginosa* and the detection of pyocyanin. 15x100mm plate, 18ml fill, 10/pk.....G201

R2A Agar

For the detection of heterotrophic bacteria in water samples. 15x100mm plate, 26ml fill, 20/pk.....G54

R2A Agar, Irradiated, Triple Bagged

For the detection of heterotrophic bacteria in water. 15x100mm plate, 26ml fill, 10/pk.....W3540

Reinforced Clostridial Medium with Na Lactate

For the cultivation and enumeration of clostridia and other anaerobic and facultative bacteria. 15x100mm plate, 18ml fill, 10 /pk.....G351

Sabouraud Dextrose Agar, Irradiated, Triple Bagged

For the detection and enumeration of fungi. 15x100mm plate, USP, 26ml fill, 10/pk.....W1770

Tryptic Soy Agar (TSA), USP

For the cultivation of microorganisms. Also known as Soybean-Casein Digest Agar. 15x100mm plate, 18ml fill, 10/pk.....G601

Tryptic Soy Agar, Irradiated, Triple Bagged, USP

For the cultivation of microorganisms. 15x100mm plate, 32ml fill, 10/pk.....W3670

Tryptic Soy Agar with Lecithin and Tween® 80

For the cultivation and enumeration of microorganisms. 15x100mm plate, 27ml fill, USP, 10/pk.....G41

Violet Red Bile with Glucose Agar, USP

For the detection of coliforms. 15x100mm plate, 18ml fill, 10/pk.....G178

Xylose Lysine Deoxycholate (XLD) Agar, USP

For the selective isolation of pathogenic, Gram-negative enteric bacteria. 15x100mm plate, 18ml fill, 10/pk.....G604

Septum Bottle Size Comparison

Bottled Media with Septum

For Sterility Testing <USP 71> by
Direct Inoculation or Closed
System Testing

- A 20ml glass bottle with flip seal
- B 100ml glass bottle with flip seal
- C 125ml polycarbonate bottle
- D 200ml glass bottle with flip seal
- E 16x125mm glass tube
- F 600ml glass bottle
- G 500ml polycarbonate bottle
- H 1L polypropylene bottle



Fluid A, USP

A rinsing and diluting fluid.

- B** 100ml glass bottle, 100ml fill, 20/pkU109
- D** 200ml glass bottle, 200ml fill, 10/pkU209
- G** 500ml polycarbonate bottle, 300ml fill, 10/pkU349
- F** 600ml glass bottle, 300ml fill, 10/pkU342
- F** 600ml glass bottle, 600ml fill, 10/pkU249

Fluid D, USP

A rinsing and diluting fluid.

- B** 100ml glass bottle, 100ml fill, 20/pkU110
- F** 600ml glass bottle, 300ml fill, 10/pkU346

Fluid K, USP

To ensure sterility of pharmaceuticals and medical devices.

- F** 600ml glass bottle, 300ml fill, 10/pkU348

Fluid Thioglycollate Broth with Indicator, USP

For the cultivation of microorganisms and USP sterility procedures.

- E** 16x125mm glass tube, 10ml fill, 20/pkK282
- A** 20ml glass bottle, 15ml fill, 50/pkU66
- A** 20ml glass bottle, 20ml fill 50/pkU68
- B** 100ml glass bottle, 100ml fill, 20/pkU84
- C** 125ml polycarbonate bottle, 100ml fill, 20/pkU121
- D** 200ml glass bottle, 150ml fill, 10/pkU207
- D** 200ml glass bottle, 150ml fill, 21/pkU426
- F** 600ml glass bottle, 300ml fill, 10/pkU427
- F** 600ml glass bottle, 500ml fill, 10/pkU273

Fluid Thioglycollate with Lecithin and Tween® 80

For use in detecting microorganisms in normally sterile materials.

- D** 200ml glass bottle, 150ml fill, 21/pkU430

Phosphate Buffered Saline with Tween (0.02M)

For use in the determination of total bioburden levels in unsterilized product.

- H** 1L polypropylene bottle, 300ml fill, 10/pkU323
- H** 1L polypropylene bottle, 600ml fill, 10/pkU326

Reinforced Clostridial Medium, USP

For the cultivation of *Clostridium* spp. and other anaerobic and facultative bacteria.

- C** 125ml polycarbonate bottle, 100ml fill, 16/pkU172

Tryptic Soy Broth, USP

For use as a general purpose medium for the isolation and cultivation of bacteria and fungi.

- G** 16x125mm glass tube, 7ml fill, 20/pkK283
- G** 16x125mm glass tube, 10ml fill, 20/pkK82
- A** 20ml glass bottle, 10ml fill, 50/pkU8210
- A** 20ml glass bottle, 15ml fill, 50/pkU82
- A** 20ml glass bottle, 20ml fill, 50/pkU38
- B** 100ml glass bottle, 50ml fill, 20/pkU267
- B** 100ml glass bottle, 70ml fill, 20/pkU79
- B** 100ml glass bottle, 100ml fill, 20/pkU46
- B** 100ml glass bottle, unlabeled, 100ml fill, 20/pkU56
- D** 200ml glass bottle, 150ml fill, 12/pkU420
- C** 125ml polycarbonate bottle, 100ml fill, 16/pkU141
- F** 600ml glass bottle, 300ml fill, 10/pkU421
- F** 600ml glass bottle, 400ml fill, 12/pkU271
- F** 600ml glass bottle, 500ml fill, 10/pkU274

Tryptic Soy Broth with 10% Glycerol

For the preservation of microorganisms by freezing.

- B** 100ml glass bottle, 100ml fill, 20/pkU127

Tryptic Soy Broth with Lecithin and Tween® 80

For the cultivation of microorganisms.

- A** 20ml glass bottle, 10ml fill, 50/pkU423
- D** 200ml glass bottle, 150ml fill, 21/pkU424
- F** 600ml glass bottle, 300ml fill, 10/pkU425

Sabouraud Dextrose Broth, USP

For the cultivation of fungi.

- C** 125ml polycarbonate bottle, 100ml fill, 16/pkU73

Saline, 0.85% with 0.05% Tween® 80

For preparing dilutions and suspensions of microorganisms.

- B** 100ml glass bottle, 100ml fill, 20/pkU330

Quality Control Organisms for Water Testing from Microbiologics®

KWIK-STIK™, KWIK-STIK™ Plus and LYFO DISK®

KWIK-STIK™ is well-known for its clever design and accurate, repeatable results. Each KWIK-STIK™ device features a single QC microorganism strain in a lyophilized pellet, a reservoir of hydrating fluid, and an inoculating swab. For added convenience, a peel-off identification label is included for easy documentation. The KWIK-STIK™ is available in packs of 2 or 6.

KWIK-STIK™ Plus microorganisms have the same characteristics as the KWIK-STIK™ but contains an organism that has had only two passages from ATCC origin. Five swabs a single strain per package. Rehydrating fluid is built into the KWIK-STIK™ unit.

LYFO DISK® is a lyophilized pellet containing a single strain of a QC microorganism and is the most economical reference stock culture option. LYFO DISK® is known for its ease-of-use; simply re-hydrate the pellet and inoculate. LYFO DISK® is available in a re-sealable vial containing 6 pellets of a single QC microorganism strain.

Aeromonas hydrophila ATCC® 35654™
KWIK-STIK™, 2/pk.....0910P
 6/pk.....0910K
LYFO DISK®, 6 pellet vial.....0910L

Aspergillus brasiliensis ATCC® 16404™
KWIK-STIK™, 2/pk.....0392P
 6/pk.....0392K
KWIK-STIK™ Plus, 5/pk.....0392X
LYFO DISK®, 6 pellet vial.....0392L

Bacillus spizizenii ATCC® 6633™**
KWIK-STIK™, 2/pk.....0486P
 6/pk.....0486K
KWIK-STIK™ Plus, 5/pk.....0486X
LYFO DISK®, 6 pellet vial.....0486L



Candida albicans ATCC® 10231™
KWIK-STIK™, 2/pk.....0443P
 6/pk.....0443K
KWIK-STIK™ Plus, 5/pk.....0443X
LYFO DISK®, 6 pellet vial.....0443L

Enterobacter aerogenes ATCC® 13048™
KWIK-STIK™, 2/pk.....0306P
 6/pk.....0306K
KWIK-STIK™ Plus, 5/pk.....0306X
LYFO DISK®, 6 pellet vial.....0306L

Enterobacter cloacae ATCC® 23355™
KWIK-STIK™, 2/pk.....0313P
 6/pk.....0313K
LYFO DISK®, 6 pellet vial.....0313L

Enterococcus faecalis ATCC® 19433™
KWIK-STIK™, 2/pk.....0367P
 6/pk.....0367K
LYFO DISK®, 6 pellet vial.....0367L

Enterococcus faecalis ATCC® 29212™
KWIK-STIK™, 2/pk.....0366P
 6/pk.....0366K
KWIK-STIK™ Plus, 5/pk.....0366X
LYFO DISK®, 6 pellet vial.....0366L

Escherichia coli ATCC® 8739™
KWIK-STIK™, 2/pk.....0483P
 6/pk.....0483K
KWIK-STIK™ Plus, 5/pk.....0483X
LYFO DISK®, 6 pellet vial.....0483L



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Escherichia coli ATCC® 25922™

| | |
|--|-------|
| KWIK-STIK™ , 2/pk..... | 0335P |
| 6/pk..... | 0335K |
| KWIK-STIK™ Plus , 5/pk..... | 0335X |
| LYFO DISK® , 6 pellet vial..... | 0335L |

Klebsiella pneumoniae ATCC® 13883™*

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|--|-------|
| KWIK-STIK™ , 2/pk..... | 0351P |
| 6/pk..... | 0351K |
| KWIK-STIK™ Plus , 5/pk..... | 0351X |
| LYFO DISK® , 6 pellet vial..... | 0351L |

Proteus hauseri ATCC® 13315™

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|--|-------|
| KWIK-STIK™ , 2/pk..... | 0355P |
| 6/pk..... | 0355K |
| KWIK-STIK™ Plus , 5/pk..... | 0355X |
| LYFO DISK® , 6 pellet vial..... | 0355L |

Proteus mirabilis ATCC® 12453™

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|--|-------|
| KWIK-STIK™ , 2/pk..... | 0440P |
| 6/pk..... | 0440K |
| LYFO DISK® , 6 pellet vial..... | 0440L |

Pseudomonas aeruginosa ATCC® 9027™

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| KWIK-STIK™ , 2/pk..... | 0484P |
| 6/pk..... | 0484K |
| KWIK-STIK™ Plus , 5/pk..... | 0484X |
| LYFO DISK® , 6 pellet vial..... | 0484L |

Pseudomonas aeruginosa ATCC® 27853™

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| KWIK-STIK™ , 2/pk..... | 0353P |
| 6/pk..... | 0353K |
| KWIK-STIK™ Plus , 5/pk..... | 0353X |
| LYFO DISK® , 6 pellet vial..... | 0353L |

Salmonella Typhimurium ATCC® 14028™*

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| KWIK-STIK™ , 2/pk..... | 0363P |
| 6/pk..... | 0363K |
| KWIK-STIK™ Plus , 5/pk..... | 0363X |
| LYFO DISK® , 6 pellet vial..... | 0363L |

Serratia marcescens ATCC® 8100™

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| KWIK-STIK™ , 2/pk..... | 0354P |
| 6/pk..... | 0354K |
| LYFO DISK® , 6 pellet vial..... | 0354L |

Staphylococcus aureus ATCC® 6538™

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| KWIK-STIK™ , 2/pk..... | 0485P |
| 6/pk..... | 0485K |
| KWIK-STIK™ Plus , 5/pk..... | 0485X |
| LYFO DISK® , 6 pellet vial..... | 0485L |

Staphylococcus aureus ATCC® 25923™*

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|--|-------|
| KWIK-STIK™ , 2/pk..... | 0360P |
| 6/pk..... | 0360K |
| KWIK-STIK™ Plus , 5/pk..... | 0360X |
| LYFO DISK® , 6 pellet vial..... | 0360L |

Staphylococcus epidermidis ATCC® 12228™

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| KWIK-STIK™ , 2/pk..... | 0371P |
| 6/pk..... | 0371K |
| KWIK-STIK™ Plus , 5/pk..... | 0371X |
| LYFO DISK® , 6 pellet vial..... | 0371L |

Streptococcus gallolyticus ATCC® 9809™

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| KWIK-STIK™ , 2/pk..... | 0391P |
| 6/pk..... | 0391K |
| LYFO DISK® , 6 pellet vial..... | 0391L |

Streptococcus pyogenes ATCC® 19615™

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|--|-------|
| KWIK-STIK™ , 2/pk..... | 0385P |
| 6/pk..... | 0385K |
| KWIK-STIK™ Plus , 5/pk..... | 0385X |
| LYFO DISK® , 6 pellet vial..... | 0385L |

Trichophyton mentagrophytes ATCC® 9533™

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| KWIK-STIK™ , 2/pk..... | 0442P |
| 6/pk..... | 0442K |
| LYFO DISK® , 6 pellet vial..... | 0442L |





The Epower™ lyophilized and assayed control microorganism pellets add convenience to special projects and internal proficiency plans. Offers microorganism preparations manufactured at a predetermined concentration for versatile laboratory testing requirements. Process controls from one hundred to over a billion CFU/ preparation. Shelf life of 10-20 months.

Features and Benefits:

- Quantitative
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty
- Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
- Easily manipulated to deliver desired CFU levels

***Aspergillus brasiliensis* ATCC® 16404™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0392E3
 1.0 to 9.9 x 10⁶ CFU per pellet, 10 pellet vial0392E6

***Bacillus spizizenii* ATCC® 6633™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0486E3
 1.0 to 9.9 x 10⁴ CFU per pellet, 10 pellet vial0486E4
 1.0 to 9.9 x 10⁶ CFU per pellet, 10 pellet vial0486E6

***Candida albicans* ATCC® 10231™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0443E3

***Enterobacter aerogenes* ATCC® 13048™**

1.0 to 9.9 x 10³ CFU0306E3

***Enterococcus faecalis* ATCC® 29212™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0366E3
 1.0 to 9.9 x 10⁷ CFU per pellet, 10 pellet vial0366E7

***Escherichia coli* ATCC® 8739™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0483E3
 1.0 to 9.9 x 10⁷ CFU per pellet, 10 pellet vial0483E7

***Escherichia coli* ATCC® 25922™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0335E3



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- Easy storage & no dry ice required; reduces shipping costs
- Cost effective & economical
- Complete and convenient documentation
- Documentation of phenotypic, macroscopic and microscopic test results
- Assured quality, meets USP guidelines
- Increased customer confidence

***Pseudomonas aeruginosa* ATCC® 9027™**

1.0 to 9.9 x 10⁷ CFU per pellet, 10 pellet vial0484E7

***Pseudomonas aeruginosa* ATCC® 27853™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0353E3
 1.0 to 9.9 x 10⁶ CFU per pellet, 10 pellet vial0353E6

***Salmonella Typhimurium* ATCC® 14028™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0363E3
 1.0 to 9.9 x 10⁴ CFU per pellet, 10 pellet vial0363E4

***Staphylococcus aureus* subsp. *aureus* ATCC® 6538™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0485E3
 1.0 to 9.9 x 10⁷ CFU per pellet, 10 pellet vial0485E7

***Staphylococcus aureus* subsp. *aureus* ATCC® 25923™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0360E3
 1.0 to 9.9 x 10⁴ CFU per pellet, 10 pellet vial0360E4

***Staphylococcus epidermidis* ATCC® 12228™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial0371E3
 1.0 to 9.9 x 10⁴ CFU per pellet, 10 pellet vial0371E4
 1.0 to 9.9 x 10⁸ CFU per pellet, 10 pellet vial0371E8



Epower™ CRM lyophilized microorganisms are available in concentrations ranging from 10² to 10⁸ CFU per pellet. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. Epower™ CRM is packaged in a vial containing 10 pellets of a single microorganism strain.

For Enumeration Test Methods such as:

- Membrane Filtration
- Heterotrophic Plate Count
- Most Probable Number
- Multiple Tube Fermentation

***Bacillus spizizenii* ATCC® 6633™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial 0486E3CRM
 1.0 to 9.9 x 10⁴ CFU per pellet, 10 pellet vial 0486E4CRM
 1.0 to 9.9 x 10⁶ CFU per pellet, 10 pellet vial 0486E6CRM

***Candida albicans* ATCC® 10231™**

1.0 to 9.9 x 10³ CFU per pellet, 10 pellet vial 0443E3CRM

ez accu shot™
 GROWTH PROMOTION TESTING

EZ-Accu Shot™ is designed to deliver less than 100 CFU per 0.1 ml of hydrated suspension. Each 1.2 ml vial of hydrated suspension offers 10 inocula. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.

EZ-Accu Shot™ kits include:

- 5 vials of a single enumerated QC microorganism (1 lyophilized pellet per vial)
- 5 vials of hydrating fluid (1.2 ml in each vial)
- Peel-Off Certificate of Assay

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| <i>Aspergillus brasiliensis</i> ATCC® 16404™ |0392A |
| <i>Bacillus spizizenii</i> ATCC® 6633™ |0486A |
| <i>Candida albicans</i> ATCC® 10231™ |0443A |
| <i>Enterobacter aerogenes</i> ATCC® 13048™ |0306A |
| <i>Escherichia coli</i> ATCC® 8739™ |0483A |
| <i>Pseudomonas aeruginosa</i> ATCC® 9027™ |0484A |
| <i>Salmonella Typhimurium</i> ATCC® 14028™ |0363A |
| <i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 6538™ |0485A |



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| <i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 25923™ |0360A |
| <i>Staphylococcus epidermidis</i> ATCC® 12228™ |0371A |

EZ·CFU™



EZ CFU™ and EZ CFU™ One Step

EZ-CFU™ is used to perform Growth Promotion Tests of culture media with ease. EZ-CFU™ lyophilized QC microorganism preparations deliver 10-100 CFU per 0.1 ml when processed as directed. A one log dilution in pH 7.2 phosphate buffer is required. Following the dilution step, EZ-CFU™ provides over 90 inocula using the same suspension. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.

EZ-CFU™ kits include:

- 20 lyophilized pellets of a single quantitative QC microorganism
- 10 vials of hydrating fluid (2 ml in each vial)
- Peel-Off Certificate of Assay

EZ-CFU™ One Step quantitative QC microorganism preparations are used to perform Growth Promotion Tests of culture media with ease. No dilutions are required. EZ-CFU™ One Step is designed to deliver 10-100 CFU with each 0.1 ml inoculum. Each 2 ml vial of hydrated suspension offers 19 inocula. EZ-CFU™ One Step can be used for up to eight hours after hydration if the suspension is refrigerated between uses**. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.

**Catalog numbers 0318Z and 0320Z are an exception to the eight hour stability and must be used within 30 minutes of hydration.

EZ-CFU™ One Step kits include:

- 20 lyophilized pellets of a single quantitative QC microorganism
- 10 vials of hydrating fluid (2 ml in each vial)
- Peel-Off Certificate of Assay

Aspergillus brasiliensis ATCC® 16404™
EZ-CFU™ 0392C
EZ-CFU™ One Step 0392Z

Bacillus spizizenii ATCC® 6633™
EZ-CFU™ 0486C
EZ-CFU™ One Step 0486Z

Candida albicans ATCC® 10231™
EZ-CFU™ 0443C
EZ-CFU™ One Step 0443Z

Enterobacter aerogenes ATCC® 13048™
EZ-CFU™ 0306C
EZ-CFU™ One Step 0306Z

Enterococcus faecalis ATCC® 29212™
EZ-CFU™ 0366C
EZ-CFU™ One Step 0366Z

Escherichia coli ATCC® 8739™
EZ-CFU™ 0483C
EZ-CFU™ One Step 0483Z

Escherichia coli ATCC® 25922™
EZ-CFU™ 0335C

Pseudomonas aeruginosa ATCC® 9027™
EZ-CFU™ 0484C
EZ-CFU™ One Step 0484Z

Pseudomonas aeruginosa ATCC® 27853™
EZ-CFU™ 0353C
EZ-CFU™ One Step 0353Z

Salmonella Typhimurium ATCC® 14028™
EZ-CFU™ 0363C
EZ-CFU™ One Step 0363Z

Staphylococcus aureus ATCC® 6538™
EZ-CFU™ 0485C
EZ-CFU™ One Step 0485Z

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Staphylococcus aureus ATCC® 25923™
 EZ-CFU™ 0360C
 EZ-CFU™ One Step 0360Z

Staphylococcus epidermidis ATCC® 12228™
 EZ-CFU™ 0371C
 EZ-CFU™ One Step 0371Z

Streptococcus pyogenes ATCC® 19615™
 EZ-CFU™ One Step 0385C
 EZ-CFU™ One Step 0385Z



Lab-Elite™

CERTIFIED REFERENCE MATERIAL

Lab-Elite™ Certified Reference Material (CRM) helps ISO 17025 accredited laboratories meet the requirements of this standard. Lab-Elite™ Certified Reference Material is delivered in an easy-to-use KWIK-STIK™ format and includes a Certificate of Analysis inside the canister. Perfect for validation and verification of processes and instruments.

Kit Includes:

- One self-contained device including a lyophilized microorganism pellet, reservoir of hydrating fluid, and inoculating swab (KWIK-STIK™ format)
- Certificate of Analysis in the canister

Features and Applications:

- Easy-to-use KWIK-STIK format
- Traceable to reference culture
- Highly characterized microorganisms
- Supported by the highest accreditations in the industry
- For use in ISO 17025 accredited labs
- Quality Control Research
- For validation and verification of processes an instruments

Aspergillus brasiliensis ATCC® 16404™ 0392CRM
Bacillus spizizenii ATCC® 6633™ 0486CRM
Candida albicans ATCC® 10231™ 0443CRM
Enterobacter aerogenes ATCC® 13048™ 0306CRM
Enterococcus faecalis ATCC® 19433™ 0367CRM
Enterococcus faecalis ATCC® 29212™ 0366CRM
Escherichia coli ATCC® 8739™ 0483CRM
Escherichia coli ATCC® 25922™ 0335CRM
Klebsiella pneumoniae ATCC® 13883™ 0351CRM

Pseudomonas aeruginosa ATCC® 9027™ 0484CRM
Pseudomonas aeruginosa ATCC® 27853™ 0353CRM
Salmonella Typhimurium ATCC® 14028™ 0363CRM
Staphylococcus aureus ATCC® 6538™ 0485CRM
Staphylococcus aureus ATCC® 25923™ 0360CRM
Staphylococcus epidermidis ATCC® 12228™ 0371CRM
Streptococcus pyogenes ATCC® 19615™ 0385CRM



