

Membrane Filtration Microbiology

 **HARDY**
DIAGNOSTICS
A Culture of Service™

 Online Ordering Available

082313ss

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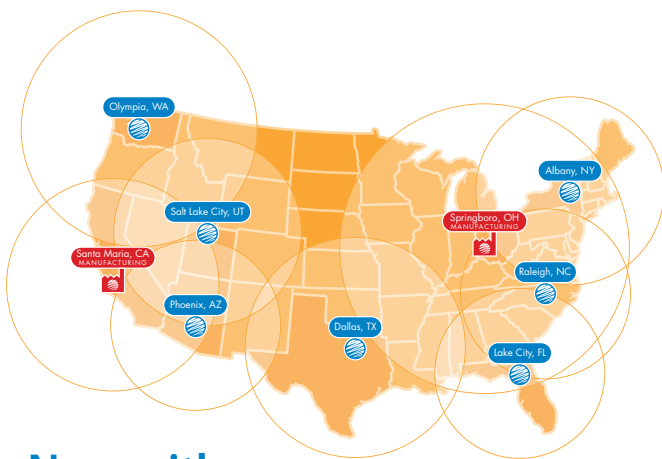
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Hardy Diagnostics



Now with
9 Distribution Centers & 2 Manufacturing Plants
Same Day Shipping **to serve you better!**

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.

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, Hygiena, 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>

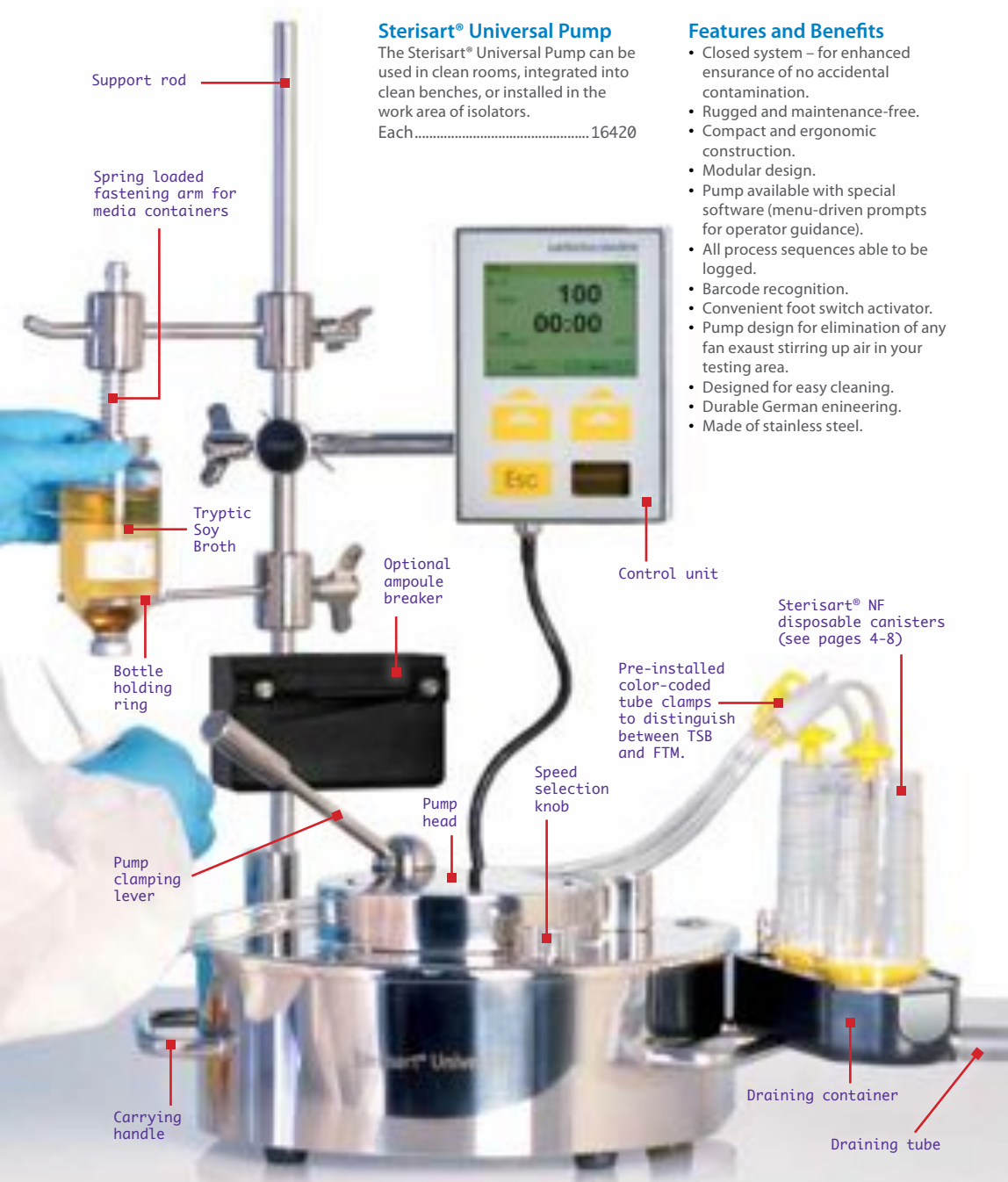
Sterisart® Universal Pump Sterility Testing System

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.

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.



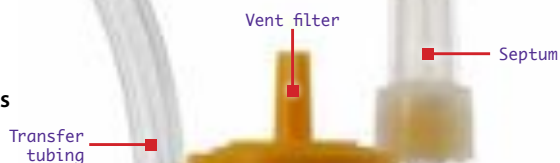
Pre-installed color-coded tube clamps to distinguish between TSB and FTM.



VHP resistant packaging.



Stainless steel septum needle. Other attachments are available.



Easy-to-read graduated marks

Reliable membrane for high retention of microbes

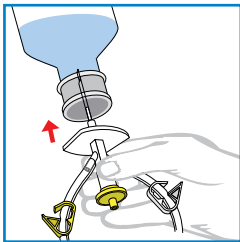
Disposable Sample Canisters and Adapter descriptions on pages 5-9

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-spike 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

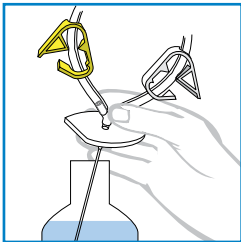


Sterisart® NF Canister for Open Containers

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

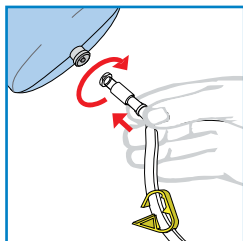


Sterisart® NF Canister for Collapsible Medical Devices with Luer or Luer Lock Connectors

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/pk16468GBD



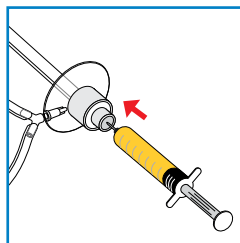
Sterisart® NF Canister for Pre-filled Syringes

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



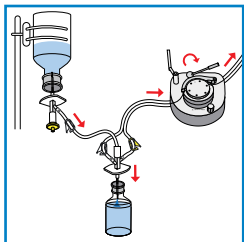
Sterisart® NF Canister for Easy-To-Dissolve Powders in Closed Glass Vials with Septum

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



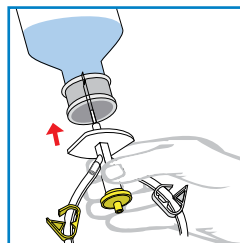
Sterisart® NF Canister for Closed, Unvented Sample Containers

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

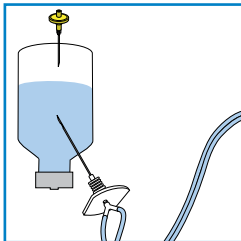


** Small Volume Parenterals

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

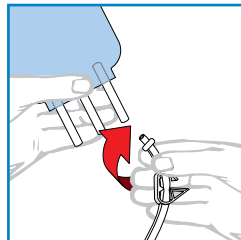


Sterisart® NF Canister for Containers with Male Luer Lock Connectors

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



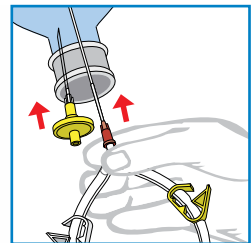
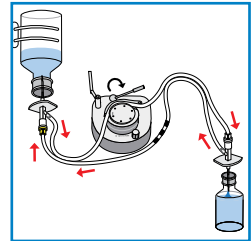


Sterisart® NF Gamma Tubing System

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/pk16596HNK

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. 17575ACK

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



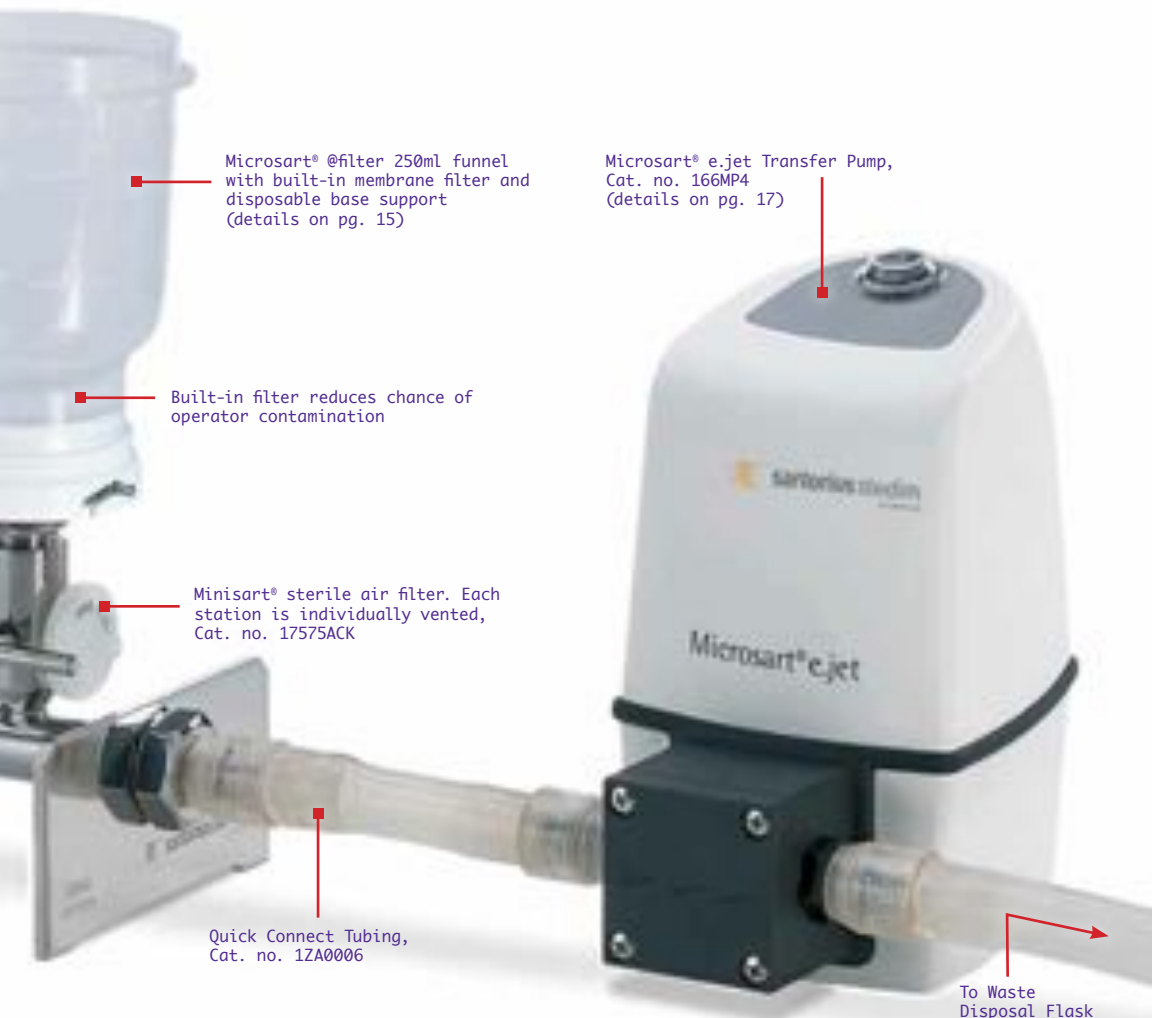
2-branch manifold



6-branch manifold

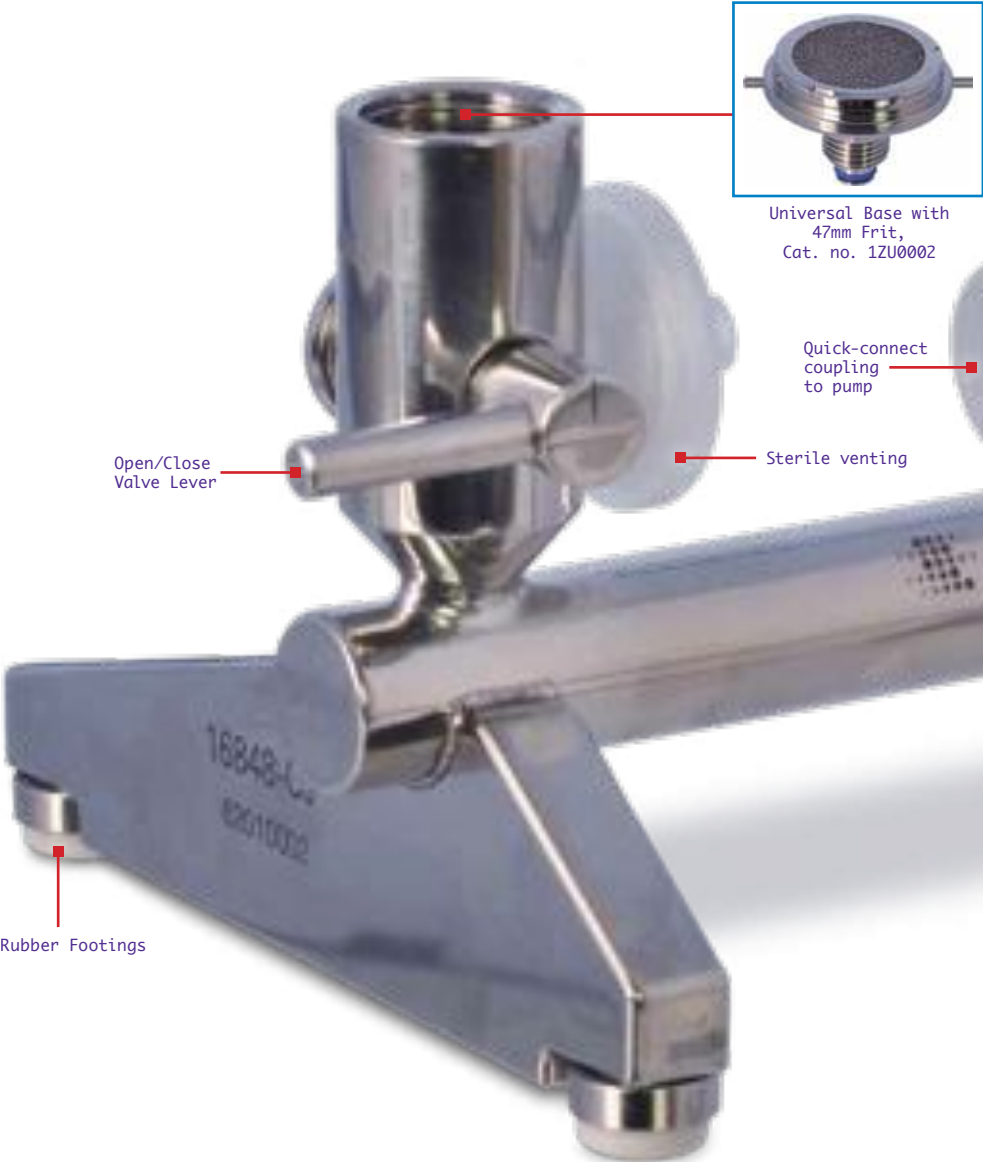
Features and Benefits

- 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





e.jet Transfer Pump



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

Each6981063



Stainless Steel Lid for 500ml Funnel

Each6981001



Lid Seal for 100ml Stainless Steel Funnel

Each6981064



Lid Seal for 500ml Stainless Steel Funnel

Each6981003



100ml Stainless Steel Funnel with Closure Clamp

Each6981065



500ml Stainless Steel Funnel with Closure Clamp

Each6981002

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.

60/pk..... 16D0125H6BK

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

60/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

Microsart® Disposable Funnels

For use with Combisart® Filter Station Manifolds

Microsart® 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 Microsart® Funnels

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

100/bx 1Z5FK0007



250ml



100ml



Microsart® Funnel Dispenser

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

Each..... 16A08



Microsart® e.jet Transfer Pump with Quick Connection

The Microsart® 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 Microsart® e.jet achieves a better trans-membrane pressure and a higher flow rate. Provides constant flow rates and smooth and reliable filtration.

Microsart® 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..... 1ZAS0007



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	11406Z47SCM
White/black	0.45µm High-Flow	300	114H6Z47SCM
White/black	0.45µm High-Flow	450	114H6Z47SFM
Gray/white	0.45µm	300	13006Z47SCM
Green/dark green	0.45µm	300	13806Z47SCM
White/green	0.45µm	300	13906Z47SCM
White/green	0.45µm High-Flow	300	139H6Z47SCM

e.motion
motion activated
filter dispenser

Individually wrapped filters

Accessories



Microsmart™ e.motion Membrane Filter Dispenser

The membrane filters are automatically released from their sterile packaging at the touch of a button or hands-free when the optical sensor detects approaching tweezers.

Features and Benefits

- Sprocket feed roll technology for reliable filter dispensing.
- Specially developed controller prevents dispensing several filters at a time.
- Compact design for quick and easy cleaning.
- Easy insertion of the filter roll.
- Light weight.
- Optional pedal switch.

Microsmart™ e.motion Dispenser	16712
Pedal Switch.....	1ZE0028

LabFlame IR Loop Sterilizer, Bunsen Burner

LabFlame IR is optimized for use in microbiology laboratories.

- Rapid and precise ignition.
- One piece stainless steel housing, free of gaps or rims, easy to clean, fully UV resistant.
- Optimized air-flow system provides a uniform and constant flame, even in safety cabinets with horizontal or vertical air flow.
- Connectable to any kind of gas source.
- Automatically cuts gas supply after every flame extinguish and checks burner temperature.
- Hands-free operation with foot-switch or touch-free IR-sensor ignition.

Each.....	LF8000000
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Tweezers, Stainless Steel

Membrane filters should only be handled with suitable tweezers in order to avoid contamination which can result from hand contact.

- Stainless steel tweezers can be flamed and are autoclavable.
- Blunt-edged tips for a careful, firm hold of the membrane filter.

Each.....	16625
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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 chlamydospore 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/pk.....G276

Lactobacilli MRS Agar with Cyclohexamide

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

m-El 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/pk.....G133

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 Cyclohexamide

For the selective isolation and cultivation of microorganisms significant in the brewing industry. 10/pk.....G151

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, 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/pk	U109
D	200ml glass bottle, 200ml fill, 10/pk	U209
G	500ml polycarbonate bottle, 300ml fill, 10/pk	U349
F	600ml glass bottle, 300ml fill, 10/pk	U342
F	600ml glass bottle, 600ml fill, 10/pk	U249

Fluid D, USP

A rinsing and diluting fluid.

B	100ml glass bottle, 100ml fill, 20/pk	U110
F	600ml glass bottle, 300ml fill, 10/pk	U346

Fluid K, USP

To ensure sterility of pharmaceuticals and medical devices.

F	600ml glass bottle, 300ml fill, 10/pk	U348
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Fluid Thioglycollate Broth with Indicator, USP

For the cultivation of microorganisms and USP sterility procedures.

E	16x125mm glass tube, 7ml fill, 20/pk	K284
E	16x125mm glass tube, 10ml fill, 20/pk	K282
A	20ml glass bottle, 10ml fill, 50/pk	U6610
A	20ml glass bottle, 15ml fill, 50/pk	U66
A	20ml glass bottle, 20ml fill 50/pk	U68
B	100ml glass bottle, 50ml fill, 20/pk	U269
B	100ml glass bottle, 100ml fill, 20/pk	U84
C	125ml polycarbonate bottle, 100ml fill, 20/pk	U121
D	200ml glass bottle, 150ml fill, 10/pk	U207
D	200ml glass bottle, 150ml fill, 21/pk	U426
F	600ml glass bottle, 300ml fill, 10/pk	U427
F	600ml glass bottle, 500ml fill, 10/pk	U273

Fluid Thioglycollate with Lecithin and Tween® 80

For use in detecting microorganisms in normally sterile materials.

B	100ml glass bottle, 100ml fill, 20/pk	U219
A	20ml glass bottle, 10ml fill, 50/pk	U429
D	200ml glass bottle, 150ml fill, 21/pk	U430

Phosphate Buffered Saline with Tween (0.01M)

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

H	1L polypropylene bottle, 300ml fill, 10/pk	U323
H	1L polypropylene bottle, 600ml fill, 10/pk	U326

Reinforced Clostridial Medium, USP

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

C	125ml polycarbonate bottle, 100ml fill, 16/pk	U172
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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/pk	K283
G	16x125mm glass tube, 10ml fill, 20/pk	K82
A	20ml glass bottle, 10ml fill, 50/pk	U8210
A	20ml glass bottle, 15ml fill, 50/pk	U82
A	20ml glass bottle, 20ml fill, 50/pk	U38
B	100ml glass bottle, 50ml fill, 20/pk	U267
B	100ml glass bottle, 70ml fill, 20/pk	U79
B	100ml glass bottle, 100ml fill, 20/pk	U46
B	100ml glass bottle, unlabeled, 100ml fill, 20/pk ...	U56
D	200ml glass bottle, 150ml fill, 12/pk	U420
C	125ml polycarbonate bottle, 100ml fill, 16/pk	U141
F	600ml glass bottle, 300ml fill, 10/pk	U421
F	600ml glass bottle, 400ml fill, 12/pk	U271
F	600ml glass bottle, 500ml fill, 10/pk	U274

Tryptic Soy Broth with 10% Glycerol

For the preservation of microorganisms by freezing.

B	100ml glass bottle, 100ml fill, 20/pk	U127
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Tryptic Soy Broth with Lecithin and Tween® 80

For the cultivation of microorganisms.

A	20ml glass bottle, 10ml fill, 50/pk	U423
D	200ml glass bottle, 150ml fill, 21/pk	U424
F	600ml glass bottle, 300ml fill, 10/pk	U425

Sabouraud Dextrose Broth, USP

For the cultivation of fungi.

C	125ml polycarbonate bottle, 100ml fill, 16/pk	U73
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Saline, 0.85% with 0.05% Tween® 80

For preparing dilutions and suspensions of microorganisms.

B	100ml glass bottle, 100ml fill, 20/pk	U330
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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™*

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

Proteus hauseri ATCC® 13315™

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

Proteus mirabilis ATCC® 12453™

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

Pseudomonas aeruginosa ATCC® 9027™

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

Pseudomonas aeruginosa ATCC® 27853™

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

Salmonella Typhimurium ATCC® 14028™*

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

Serratia marcescens ATCC® 8100™

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

Staphylococcus aureus ATCC® 6538™

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

Staphylococcus aureus ATCC® 25923™*

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

Staphylococcus epidermidis ATCC® 12228™

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

Streptococcus gallolyticus ATCC® 9809™

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

Streptococcus pyogenes ATCC® 19615™

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

Trichophyton mentagrophytes ATCC® 9533™

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 9.9×10^3 CFU per pellet, 10 pellet vial0392E3
1.0 to 9.9×10^6 CFU per pellet, 10 pellet vial0392E6

Bacillus spizizenii ATCC® 6633™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0486E3
1.0 to 9.9×10^4 CFU per pellet, 10 pellet vial0486E4
1.0 to 9.9×10^6 CFU per pellet, 10 pellet vial0486E6

Candida albicans ATCC® 10231™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0443E3

Enterobacter aerogenes ATCC® 13048™

1.0 to 9.9×10^3 CFU0306E3

Enterococcus faecalis ATCC® 29212™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0366E3
1.0 to 9.9×10^7 CFU per pellet, 10 pellet vial0366E7

Escherichia coli ATCC® 8739™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0483E3
1.0 to 9.9×10^7 CFU per pellet, 10 pellet vial0483E7

Escherichia coli ATCC® 25922™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0335E3

- 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 9.9×10^7 CFU per pellet, 10 pellet vial0484E7

Pseudomonas aeruginosa ATCC® 27853™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0353E3
1.0 to 9.9×10^6 CFU per pellet, 10 pellet vial0353E6

Salmonella Typhimurium ATCC® 14028™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0363E3
1.0 to 9.9×10^4 CFU per pellet, 10 pellet vial0363E4

Staphylococcus aureus subsp. *aureus* ATCC® 6538™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0485E3
1.0 to 9.9×10^7 CFU per pellet, 10 pellet vial0485E7

Staphylococcus aureus subsp. *aureus* ATCC® 25923™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0360E3
1.0 to 9.9×10^4 CFU per pellet, 10 pellet vial0360E4

Staphylococcus epidermidis ATCC® 12228™

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial0371E3
1.0 to 9.9×10^4 CFU per pellet, 10 pellet vial0371E4
1.0 to 9.9×10^8 CFU per pellet, 10 pellet vial0371E8

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Epower™ CRM lyophilized microorganisms are available in concentrations ranging from 10^2 to 10^8 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 9.9×10^3 CFU per pellet, 10 pellet vial 0486E3CRM
 1.0 to 9.9×10^4 CFU per pellet, 10 pellet vial 0486E4CRM
 1.0 to 9.9×10^6 CFU per pellet, 10 pellet vial 0486E6CRM

***Candida albicans* ATCC® 10231™**

1.0 to 9.9×10^3 CFU per pellet, 10 pellet vial 0443E3CRM



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

Aspergillus brasiliensis ATCC® 16404™ 0392A

Bacillus spizizenii ATCC® 6633™ 0486A

Candida albicans ATCC® 10231™ 0443A

Enterobacter aerogenes ATCC® 13048™ 0306A

Escherichia coli ATCC® 8739™ 0483A

Pseudomonas aeruginosa ATCC® 9027™ 0484A

Salmonella Typhimurium ATCC® 14028™ 0363A

Staphylococcus aureus subsp. *aureus*

ATCC® 6538™ 0485A



Staphylococcus aureus subsp. *aureus*

ATCC® 25923™ 0360A

Staphylococcus epidermidis

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.

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

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

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 and 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



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www.HardyDiagnostics.com

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