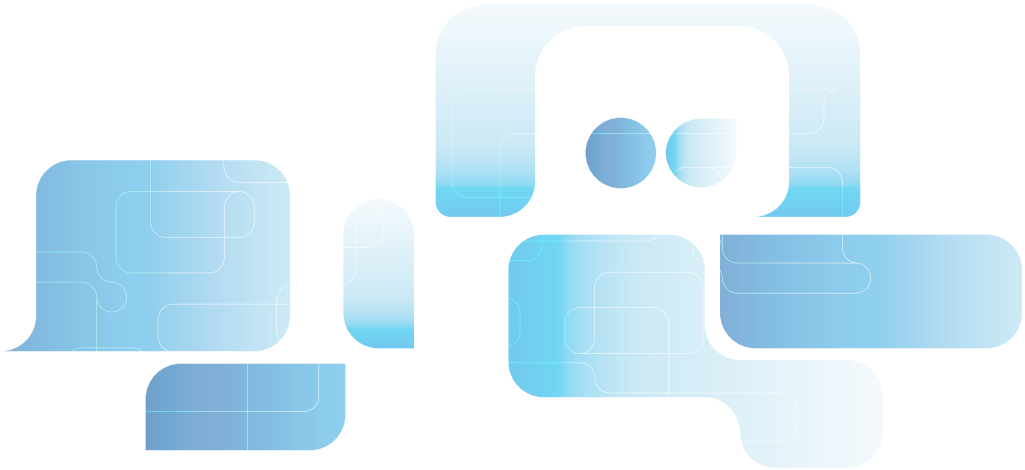
MICROBIOLOGY
PRODUCT COLLECTION



The GVS Group

In over 45 years of history, GVS has evolved from a supplier of components for the healthcare sector to a global group that produces highly technological diversified filtration solutions.

Wide range of products and custom design expertise

GVS produces a wide range of filter materials, filters and off-the-shelf components in all its divisions, enabling its customers to reduce the design time for new product launches.
All the GVS divisions work in highly regulated environments and the Group therefore operates with extremely high-quality standards. Thanks to its research and development centres located all over the world, GVS is also able to offer an extremely efficient and personalized service to meet its customers'needs: from product conception and design to testing and mass production.

Dynamic and flexible structure

GVS has developed a streamlined, dynamic and technologically advanced structure that has made it possible to achieve constant and balanced growth. The Group currently employs a total of 4869 people who work in automated assembly departments, in lines for the production and processing of filter membranes and in class 10,000 and 100,000 cleanrooms.

Global growth

The GVS Group has always paid great attention to research, development and innovation of its products and processes and has shown a strong trend towards development in global markets since its foundation.
In addition to the corporate headquarters in Bologna, GVS currently has 19 plants in Italy, United Kingdom, Brazil, United States, China, Mexico, Romania e Puerto Rico, and 29 commercial offices located all over the world. GVS has always adopted a "glocal" approach: it operates locally in contact with its customers, but relies on the strength of a global network.

For more information, visit www.gvs.com

Microbiology Index

GVS Filter Technology is a fully integrated producer and supplier of microbiological solutions for the laboratory and testing community.

Microbiological testing includes the controlled analysis of water, beverage, food, pharmaceuticals and other consumer products and their processing equipment to evaluate for the presence of micro-organisms that may cause harm to the user or reduce the product quality or performance.

Microbiological testing is a crucial requirement across many industries worldwide where product, process and human health are influenced by the presence of micro-organisms: living bacteria, viruses, yeasts and molds that are too small to be visible to the naked eye.

International test procedures and standard lab practices have been established to provide strict methods for micro-organism analysis and identification.

Micro-organisms can be harmful or beneficial to the product or process under analysis.
Some diseases of human, animals and plants are caused by unwanted bacteria, yeasts and mold. Other beneficial yeasts and molds are responsible for numerous desirable processes in beer, wine, and food production and biotechnology.

GVS products for microbiological testing include applications and testing for:

- **Contamination of work surfaces and equipment**

- **Microbiological analysis of:**
  - Potable water
  - Beer and wine
  - Waste water
  - Dairy products
  - Soft drink and concentrates
  - Fruit juices
  - Fermented products

- **Detection of:**
  - Bacteria, fungi, molds
  - Escherichia coli (E.Coli)
  - Fecal streptococci and fecal coliforms
  - Staphylococci
  - Listeria
  - Enterococci
  - Pseudomonas aeruginosa
  - Legionella

Pore size selection guide

The technical requirements for membranes used in microbiological quality control are subject to strict national and international standards. At the same time the requirements of the market is continually changing as a result of the introduction of new products.

GVS provides a wide and versatile range of membrane filter products to supply the market needs. Our R&D department is continually developing new products for the evolving markets. All GVS membranes consist of high quality materials with a high degree of biocompatibility and are manufactured in ISO certified facilities to ensure reliable performance each and every time.

Test strains: Bacteria/ Yeasts	Pore size [µm]			Used for Validation	Standards
	0,2	0,45	0,8		
Brevundimonas diminuta	x				DSM 1635
Pseudomonas diminuta	x			x	ATCC 19146
Escherichia coli (E. coli)	o	x		x	ATCC 29522
Lactobacillus fermentum	o	x			ATCC 9338
Pseudomonas aeruginosa	x				ATCC 10145
Staphylococcus aureus	o	x		x	ATCC 25923
Enterococcus faecalis	o	x			ATCC 19433
Enterobacter aerogenes	o	x			ATCC 13048
Serratia marcescens	o	x		x	ATCC 14756
Streptococcus faecalis	o	x			ATCC 19433
Pediococcus cerevisiae	o	o	x		ATCC 43013
Pediococcus acidilactici	o	x			ATCC 33314
Legionella pnuemophila	x				ATCC 33153
Bacillus subtilis	o	o	x	x	ATCC 6633
Salmonella abony	o	x			NCTC 6017
Saccharomyces cerevisiae	o	o	x	x	DSM 1848
Candida albicans	o	o	x		ATCC 10231
Zygosaccharomyces bailii	o	o	x		ATCC 42476
Aspergillus niger	o	o	x		ATCC 16404
Total count detection		x			

x=recommended pore size
o=alternative pore size

Speed Pack Sterile MCE Membrane Ribbons

SPEED PACK

GVS Speed Pack folded ribbons provide the user with the same quality and reliability as the GVS individually packed MCE membranes. The folded ribbons provide hands-free convenience, reduce laboratory time and boost lab efficiency.
Speed Pack have ribbons designed for use with most popular membrane dispensers.

Packaged in 150 count ribbons are available to order in pack size of 150 or 600 (4 x 150). Select either gridded white or black sterilized membranes in a continuous folded ribbon for easy dispensing and convenience.

GVS MCE sterile filtration membranes are ideally used for the microbiological culturing and examination of water, beverages, beer, wine, juices, waste water, pharmaceuticals, food and other critical applications. It boosts a rapid flow rate and high throughput for consistent and uniform results.

- Available in 0.2 µm, 0.45 µm and 0.8 µm pore sizes
- Available in White or Black membranes with gridded surfaces
- Pre-sterilized (gamma irradiation) and ready to use product
- Comes in box of 150 count
- Sold in packs of 150 or or 600 (4 x 150), 47 mm. For 50 mm size please contact GVS sales team
- Compatible with various dispensers (Microsart E-Motion, EZ-Pak, EZ-Pak Curve, Whatman Membrane-Butler)
- Individually sealed filters are printed with the membrane specification and lot number on the clear cover of each sealed filter
- Membranes are numbered from 1 to 150

White MCE membranes with Black Grids are widely used for general purpose examination and enumeration of microorganisms. Commonly used for water, waste-water, pharmaceutical, medical, food and beverage analysis. The contrasting grid lines facilitate counting of colonies.

Black MCE with White Grids provide color contrast between the filter and white or beige microorganisms without the need for counter-stain. Commonly used for bottled water, carbonated beverages, beer and wine analysis. The contrasting grid lines facilitate counting of colonies.

Speed Pack Ribbons of Membranes

Mixed Cellulose Esters (MCE) membrane, Sterile Ordering information

Dimensions Packaging	47 mm 150/pk	47 mm 150/pk	47 mm 600/pk	47 mm 600/pk
Color	**white**	**black**	**white**	**black**
0.2 µm	SPNCW02BG47S	on demand	SPNCW02BG47S6	on demand
0.45 µm	SPNCW04BG47S	SPNCB04WG47S	SPNCW04BG47S6	SPNCB04WG47S6
0.8 µm	SPNCW08BG47S	SPNCB08WG47S	SPNCW08BG47S6	SPNCB08WG47S6

Funnel Ordering information

Code	Description	Quantity
FUNNELA100SR	PP Funnel 100 ml sterile for Speed-Pack	150
FUNNELA250SR	PP Funnel 250 ml sterile for Speed-Pack	150

Sterile MCE Membranes single-packed

GVS Mixed Cellulose Esters (MCE) Filtration Membrane is an unsupported, hydrophilic membrane. Its rapid flow rate and high throughput make it ideal for use in bioburden and sterility testing.

Characteristics

- High flow rate: fast filtration rates
- Uniform pore structure: consistent flow and diffusion rates
- Lot-to-lot consistency
- Microbiological and particulate analysis
- Black for food and beverage applications

Consistent Uniformity Improves Control and Performance

Packaged individually for convenience, handling, economy and integrity, each 1+PAC includes a 47 mm presterilized MCE membrane filter. They are available with or without an absorbent nutrient pad in either white or black. This all-in-one pack permits individual testing, eliminating the possibility of contaminating a large supply of presterilized filters. Filters, pads and envelopes are presterilized by gamma irradiation.

White 1+ PAC

White gridded discs are designed for the recovery and retention of E. coli bacteria in water / waste-water analysis as well as other microbiological tests. The filters are certified to meet specifications listed in APHA Standard Methods. The 1+PAC is also ideal for sterility and bioburden testing in QC/QA laboratories.

Black 1+ PAC

GVS offers black MCE filters specifically manufactured and tested for quality assurance testing in food and beverage analysis. Without proper microbiological testing, the taste, odor and appearance of the final product can be ruined, resulting in lost production time, expensive in-line cleanup and end product loss due to spoilage. The black filters provide a superb contrast for early and accurate colony counting for total bacteria, yeast and mold organisms. The filters are certified to meet specifications listed in the APHA Standard Methods. For a certificate of analysis, please request it on your purchase order.

Performance

Pore Size (µm)	Flow Time (s)	Volume/Vacuum (ml/in Hg)	Flow Rate (ml/min/cm² @ 10 psi)	Bubble Point (psi)
0.2	60-136	250/20	11.70-26.51	52-65
0.45	23-46	250/20	34.58-69.16	30-42
0.8	5-18	250/20	88.37-318.13	11-19

Mixed Cellulose Esters membrane - Sterile, white and black
Ordering information

		Individually Packaged Without Pad Gridded				Individually Packaged with Pad Gridded	
	Dimensions Packaging	47 mm 250/pk	47 mm 250/pk	47 mm 1000/pk	47 mm 1000/pk	47 mm 100/pk	47 mm 100/pk
	Color	white	black	white	black	white	black
Pore sizes	0.2 µm	1216732		1216737		1214872	
	0.45 µm	1216733	1216730	1216738	1216735	1215237	1214866
	0.8 µm	1216734	1216731		1216736	1225460	

Nutrient Liquid Media for Culturing and Enumeration

GVS provides as extensive range of culture broths and solutions for the cultivation, detection and enumeration of bacteria yeast, fungi, viruses, pathogens and molds. Each nutrient rich liquid media is specifically developed for use in the analysis of drinking water, surface water, milk, juice, beverages, sugar based drinks, food and pharmaceutical samples.These ready to use liquid medias are packaged in individual pre-portioned ampoules for ease of use. All liquid medias undergo detailed quality control checks in accordance with standard methods, guaranteeing uniform preparation every time. Comprehensive end product testing ensures a stable sterile liquid media for optimal culture growth.

Quick Media Selection Guide for Common Evaluation Processes and Micro-Organisms

Water, wastewater and purified water

Quality control systems for wastewater analysis and production systems using water. Typical organisms include Pseudomonads, Escherichia coli, Staphylococci, spore formers, yeasts and molds.

Selective microorganism	Positive test organism	Media	Product No.
Acid-tolerant micro-organisms Lactic-acid bacteria	Lactobacillus fermentum (ATCC 9338) Candida albicans (ATCC 10231)	Orange Serum Broth	10496104
Aerobic bacteria	Escherichia coli (E.coli) (ATCC 25922)	HPC Broth HPC Broth with TTC M-TGE Total Count Broth Total Count Media with TTC	10496164 10496151 10496102 10496113
Total Coliforms and Escherichia coli	Escherichia coli (E.coli) (ATCC 25922)	Brilliant Green Bile Broth EC Broth M-Endo Coliform Broth M-FC Broth M-FC Broth with Rosolic Acid MI Broth MI Agar EC Broth with MUG M-TGE Total Count Broth	10496710 10496714 10496103 10496124 10496114 10496192 10496847 10496709 10496102
Enterococci	Enterococci faecalis (ATCC 19433)	Enterococcus Broth	10496120
Fecal Streptococci	Escherichia coli (E.coli) (ATCC 25922) Streptococcus faecalis (ATCC 19433)	KF-Streptococcus Broth	10496125
Pseudomonas aeruginosa	Pseudomonas aeruginosa (ATCC 10145)	Cetrimide Broth Pseudomonas Broth	10496146 10496119
Staphylococci	Staphylococcus aureus (ATCC 25923)	Mannitol Salt Broth	10496121
Yeast and Mold	Zygosaccharomyces bailii (ATCC 58445 Candida albicans (ATCC 10231)	PRY Broth (Preservative Resi-stant Yeast) M-Green Select Broth M-Green Yeast and Mold Broth	10496106 10496116 10496101

Soft drinks, fruit juices, concentrates and sugar products

Due to different pHs and carbonation levels the nutrient media for detection of these contaminants are very specific.

Selective microorganism	Positive test organism	Media	Product No.
Acid-tolerant micro-organisms Lactic-acid bacteria Lactobacillus, Oenococcus (product spoiling organisms)	Lactobacillus fermentum (ATCC 9338) Candida albicans (ATCC 10231)	Orange Serum Broth Wallerstein Differential Broth (WLD)	10496104 10496109
Aerobic bacteria	Escherichia coli (E.coli) (ATCC 25922)	HPC Broth HPC Broth with TTC M-TGE Total Count Broth Total Count Media with TTC	10496164 10496151 10496102 10496113
Total Coliform and Escherichia coli	Saccharomyces cerevisiae (ATCC 9763)	Brilliant Green Bile Broth M-Endo Coliform Broth MI Broth MI Agar EC Broth with MUG M-TGE Total Count Broth	10496710 10496103 10496192 10496847 10496709 10496102

Selective microorganism	Positive test organism	Media	Product No.
Pseudomonas aeruginosa	Pseudomonas aeruginosa (ATCC 10145)	Cetrimide Broth Pseudomonas Broth	10496146 10496119
Yeast and Mold	Zygosaccharomyces bailii (ATCC 58445) Candida albicans (ATCC 10231)	PRY Broth (Preservative Resistant Yeast) M-Green Select Broth M-Green Yeast and Mold Broth	10496106 10496116 10496101
Staphylococci	Staphylococcus aureus (ATCC 25923)	Mannitol Salt Broth	10496121

Beer and Wine

Beer quality control is focused on beer spoiling bacteria like Lactobacilli and Pediococci as well as wild yeast.
Wine quality control is focussed on taste spoiling organisms including acid tolerant species like acetic acid bacterial and lactic acid bacterial as well as yeast and mold.

Selective microorganism	Positive test organism	Media	Product No.
Acetobacter		Orange Serum Broth (add 5-8% ethanol)	10496104
Aerobic bacteria	Escherichia coli (E.coli) (ATCC 25922)	Total Count Media with TTC	10496113
Bacteria in fermentation processes		Wallerstein Differential Broth (WLD)	10496109
Total Coliform and Escherichia coli	Saccharomyces cerevisiae (ATCC 9763) Escherichia coli (E.coli) (ATCC 25922)	M-Endo Coliform Broth M-Endo Coliform Broth MI Broth MI Agar	10496103 10496103 10496192 10496847
Lactobacilli, Pediococci (beer spoiling organisms)	Lactobacillus fermentum (ATCC 9338) Candida albicans (ATCC 10231)	Orange Serum Broth Wallerstein Differential Broth (WLD)	10496104 10496109
Yeast and Mold	Zygosaccharomyces bailii (ATCC 58445) Saccharomyces cerevisiae (ATCC 9763)	PRY Broth (Preservative Resistant Yeast) Wallerstein Nutrient Broth (WLN)	10496106 10496108

Dairy Products

Dairy quality control is focused on the presence of bacteria, yeasts and mold and milk borne diseases. E.coli and Streptococci in dairy products may cause illness or spoilage. Other beneficial bacteria may be specifically added to milk for fermentation to produce products like yogurt and cheese.

Selective microorganism	Positive test organism	Media	Product No.
Aerobic bacteria	Escherichia coli (E.coli) (ATCC 25922)	HPC Broth HPC Broth with TTC M-TGE Total Count Broth Total Count Media with TTC	10496164 10496151 10496102 10496113
Total Coliform and Escherichia coli	Saccharomyces cerevisiae (ATCC 9763) Escherichia coli (E.coli) (ATCC 25922)	M-Endo Coliform Broth Brilliant Green Bile Broth EC Broth MI Broth MI Agar	10496103 10496710 10496714 10496192 10496847
Enterococci	Enterococci faecalis (ATCC 19433)	Enterococcus Broth	10496120
Fecal Streptococci	Streptococcus faecalis (ATCC 19433)	KF-Streptococcus Broth	10496125
Lactobacillus	Lactobacillus plantarum (ATCC 8014) Lactobacillus fermentum (ATCC 9338)	MRS Broth Wallerstein Differential Broth (WLD)	10496112 10496109

Food

Quality control systems for raw materials and final product. Typical organisms include Pseudomonads, Escherichia coli, Staphylococci, Streptococci, yeasts and molds.

Selective microorganism	Positive test organism	Media	Product No.
Acid-tolerant micro-organisms	Lactobacillus fermentum (ATCC 9338) Candida albicans (ATCC 10231)	Orange Serum Broth	10496104
Aerobic, facultative, anaerobic bacteria and fungi	Escherichia coli (E.coli) (ATCC 25922)	Total Count Media with TTC Trypticase Soy Broth (TSB)- Single Strength Trypticase Soy Broth (TSB) - Double Strength	10496113 10496707 10496708
Total Coliform and Escherichia coli	Saccharomyces cerevisiae (ATCC 9763) Escherichia coli (E.coli) (ATCC 25922)	M-Endo Coliform Broth Brilliant Green Bile Broth EC Broth EC Broth with MUG MI Broth MI Agar	10496103 10496710 10496714 10496709 10496192 10496847
Enterococci	Enterococci faecalis (ATCC 19433)	Enterococcus Broth	10496120
Fecal Streptococci	Streptococcus faecalis (ATCC 19433)	KF-Streptococcus Broth	10496125
Lactobacillus, especially in meat	Lactobacillus plantarum (ATCC 8014) Lactobacillus fermentum (ATCC 9338)	MRS Broth	10496112
Pseudomonas aeruginosa	Pseudomonas aeruginosa (ATCC 10145)	Cetrimide Broth Pseudomonas Broth	10496146 10496119
Yeast and Mold	Zygosaccharomyces bailii (ATCC 58445) Saccharomyces cerevisiae (ATCC 9763)	PRY Broth (Preservative Resistant Yeast) Wallerstein Nutrient Broth (WLN)	10496106 10496108

Pharmaceuticals, Raw Materials, Cosmetics

Quality control systems for raw materials and production systems using water. Typical organisms include Pseudomonads, Escherichia coli, Staphylococci, Streptococci, yeasts and molds.

Selective microorganism	Positive test organism	Media	Product No.
Aerobic, facultative, anaerobic bacteria and fungi	Escherichia coli (E.coli) (ATCC 25922)	Total Count Media with TTC Trypticase Soy Broth (TSB)- Single Strength Trypticase Soy Broth (TSB) - Double Strength	10496113 10496707 10496708
Total Coliform and Escherichia coli	Saccharomyces cerevisiae (ATCC 9763) Escherichia coli (E.coli) (ATCC 25922)	M-Endo Coliform Broth MI Broth MI Agar	10496103 10496192 10496847
Enterococci	Enterococci faecalis (ATCC 19433)	Enterococcus Broth	10496120
Fecal Streptococci	Streptococcus faecalis (ATCC 19433)	KF-Streptococcus Broth	10496125
Pseudomonas aeruginosa	Pseudomonas aeruginosa (ATCC 10145)	Cetrimide Broth Pseudomonas Broth	10496146 10496119
Staphylococci	Staphylococcus aureus (ATCC 25923)	Mannitol Salt Broth	10496121
Yeast and Mold	Zygosaccharomyces bailii (ATCC 58445) Saccharomyces cerevisiae (ATCC 9763)	PRY Broth (Preservative Resistant Yeast) Wallerstein Nutrient Broth (WLN)	10496106 10496108

Nutrient Liquid Media

2 mL ampouled media

Features & Benefits

- Wide range of products satisfies even special customer requirements
- Optimal media stability, sterility, and reproducibility
- Less time-consuming, higher productivity
- Batch-specific quality certificate in each pack

Liquid Media

Ready-to-use media considerably reduces the preparation time in quality control laboratories and also effectively reduces the risks of cross contamination.
GVS Life Sciences is cooperating closely with quality assurance managers in the industry in the development of its own media and test kits.
This intensive product development has produced a range of products that is being used to monitor production plants and conduct microbiological checks on raw materials through to final product release in laboratories.

Typical Applications

Microbiological analysis of:

- Drinking water
- Surface water
- Recreational water
- Purified water
- Beverage distilled and non distilled

Liquid Media Descriptions

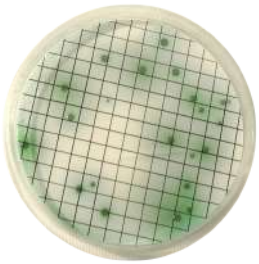
Brilliant Green Bile Broth 2%

Brilliant Green Bile Broth is used to detect coliforms in water, milk and other samples. BGBB contains two inhibitors of both gram-positive and selected gram-negative organisms, namely, oxgall and brilliant green dye. Fermentation is detected by gas production.

Brilliant Green Bile Broth

Cetrimide Broth

Cetrimide Broth is used for selective cultivation of Pseudomonas aeruginosa. Pseudomonas aeruginosa is characterized by the production of pyocyanin (a blue green, water soluble, non-fluorescent, phenazine pigment) which is stimulated by the inclusion of magnesium chloride and potassium sulfate in the broth. Cetrimide (N-cetyl-NNN-trimethylammonium bromide) is added to inhibit bacteria other than Pseudomonas aeruginosa. Its action as a quaternary ammonium cationic detergent causes nitrogen and phosphorous to be released from bacterial cells other than Pseudomonas aeruginosa.



Pseudomonas Media: Typical Growth of Pseudomonas aeroginosa ATCC 10145

EC Broth

EC (Escherichia coli) Broth is used to detect coliforms and E. coli. EC Broth contains casein peptone as a source of nutrients. Lactose provides the carbohydrate fermented by coliform bacteria and Escherichia coli. In addition, lactose-positive bacteria metabolize lactose with gas formation. Gram-positive bacteria are inhibited by the mixture of bile salts.

EC Broth with MUG

EC Broth with MUG is used to detect Escherichia coli in water, milk and food. The presence of fluorescence using a long-wave UV light source confirms the presence of Escherichia coli and no further confirmation is required. MUG detects anaerogenic strains, which may not be detected in the conventional procedure. Lactose is a source of energy. Casein peptone provides additional nutrients. The mixture of bile salts is inhibiting for gram-positive bacteria, particularly bacilli and fecal streptococci. The substrate 4-methylumbelliferyl-b-D-glucuronide is hydrolyzed by an enzyme, b-glucuronidase, possessed by most Escherichia coli and a few strains of Salmonella, Shigella and Yersinia, to produce a fluorescent end product, 4-methylumbelliferone.

EC-Broth: Vial Left: Control; Vial Right: Broth inoculated with Escherichia coli ATCC 25922

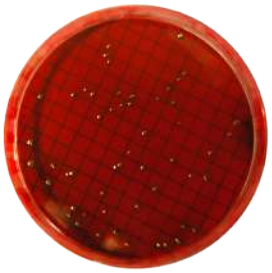
Liquid Media Descriptions

Enterococcus Broth
Enterococcus Broth is a modified version of the improved media described by Slanetz and Bartley with triphenyltetrazolium chloride (TTC). The membrane filtration method is simple to perform, does not require confirmation and permits a direct count of enterococci in 48 hours.

Heterotrophic Plate Count (HPC) Broth with or without TTC
HPC Broth and HPC Broth with TTC Heterotrophic Plate Count (HPC) Broth is used to determine live heterotrophs in drinking water and other media at incubation temperatures of 35°C. All bacteria grow on HPC with indicator media and produce a red color. This is a result of the precipitation of formazan following the reduction of 2,3,5- TTC by bacteria.

KF-Streptococcus Broth
KF-Streptococcus Broth is selective for the determination of fecal streptococci in polluted surface waters. Maltose and lactose are fermentable carbohydrates, sodium azide is the selective agent and brom cresol purple is the indicator dye.

Mannitol Salt Broth
Mannitol Salt Broth is used to detect presumptive pathogenic Staphylococci. Because of the amount of peptones and beef extract, Mannitol Salt is a nutrient rich medium. Most bacteria (other than staphylococci) are inhibited by the high concentration of sodium chloride. Organisms capable of fermenting mannitol, e.g., Staphylococcus aureus, cause a pH change in the media. With phenol red as the pH indicator the colonies appear with a yellow coloration.



M-Endo Coliform Broth

M-Endo Coliform Broth
M-endo Broth is used to detect coliform in water samples. M-Endo is a red colored media, which needs to be stored in the dark to prevent discoloration. Gram-positive bacteria are inhibited on this media by the deoxycholate and lauryl sulfate. The addition of ethanol increases the antibacterial nature of the formulation. Lactose fermenting organisms form aldehydes, which react with Schiff's reagent (basic fuchsin and sodium sulfite) to give red colored zones around the colonies. Coliform colonies are therefore red with a characteristic metallic sheen.

M-FC Broth
M-FC (fecal coliform) Broth allows the development of fecal coliforms at elevated temperatures (44.5°C).

M-FC with Rosolic Acid
M-FC with Rosolic Acid acts and functions in the same way as M-FC Broth. Rosolic acid inhibits bacterial growth in general, except for fecal coliforms.

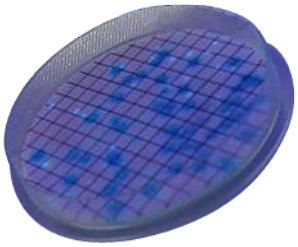
M-Green Yeast and Mold Broth: Typical Growth of Candida Albicans ATCC10231 on a Black Membrane

M-Green Yeast and Mold Broth and M-Green Yeast and Mold Agar
M-Green Yeast and Mold Broth is used to detect yeast and mold in beverages and food. M-Green Yeast and Mold Broth is an improved modification of the liquid media. The addition of bromocresol green, which diffuses into fungal colonies as an alkaline reaction, allows them to be easily identified. Metabolic by-products from the developing colonies diffuse into the surrounding medium, further reducing the pH which aids in the inhibition of bacterial growth, but also produces an acid reaction that causes residual bromocresol green to change to yellow.

M-Green Select Broth
M-Green Select Broth was developed to improve efficiency of detection and enumeration of fungi in sugar based drinks using the membrane filtration method. This medium has a low pH, which inhibits bacterial growth. The addition of chloramphenicol further inhibits the growth of bacteria to allow for the development and enumeration of yeast and mold.

Liquid Media

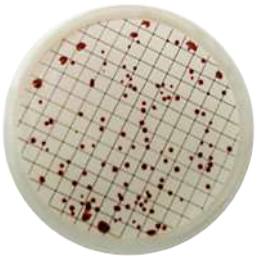
MI Broth and MI Agar
MI Broth detects the presence of coliform bacteria by the production of b-galactosidase, which cleaves the substrate MUGal to produce 4-methylumbelliferone, which fluoresces on exposure to UV light. Non-coliforms do not produce this enzyme and therefore do not fluoresce on the medium. Escherichia coli is detected by the compound IBDG. The b-glucuronidase produced by Escherichia coli cleaves the substrate to produce a blue indigo color in the colonies. As Escherichia coli is also a total coliform, and also produces b-galactosidase, it will also fluoresce. The antibiotic cefsulodin is present to inhibit the growth of gram-positive bacteria and some non-coliform gram-negative bacteria that can cause false positive reactions.



MI-Media: Pure Culture of Escherichia coli ATCC 25922 with UV Light

MRS Broth
MRS medium supports luxuriant growth of all lactobacilli, even the slow growing species.

M-TGE Total Count Media
All bacteria develop on TGE media and produce a range of different colored and sized colonies.



Total Count Media with Indicator. Escherichia Coli ATCC 25922 and Staphylococcus Aureus ATCC 25923 can be Easily Detected according to their Red to Pink Colonies

Orange Serum Media
Orange Serum Broth is used to detect aciduric microorganisms.Organisms known to grow in single strength and concentrated juices are lactic acid and acetic acid bacteria and yeast. Lactobacilli, Leuconostoc and yeast have all been identified as spoilage organisms by numerous authors. Orange serum at pH 5.4 to 5.6 has been reported to yield maximum counts of all types of spoilage organisms in mixed cultures and in single culture comparison tests.

PRY Broth
Preservative Resistant Yeast Broth is a low pH selective medium for the detection of spoilage microorganism in beverages and water.

Pseudomonas Broth
Pseudomonas aeruginosa is characterized by the production of pyocyanin (a blue green, water soluble, non-fluorescent, phenazine pigment) which is stimulated by the inclusion of magnesium chloride and potassium sulfate in the broth. Irgasan, an antimicrobial agent, selectively inhibits gram-positive and gram-negative bacteria other than pseudomonads. Glycerol both serves as an energy source and helps in the promotion of pyocyanin.

Total Count Media with TTC
All bacteria develop on Total Count Media with indicator and produce a red color as a result of the precipitation of formazan following the reduction of 2,3,5- TTC by bacteria.

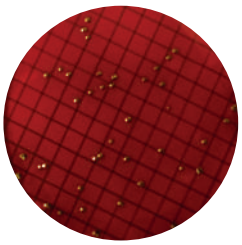
Trypticase Soy Broth Double Strength
(not Innoculated)

Trypticase Soy Broth – Single Strength
General purpose medium used in qualitative procedures for the cultivation of fastidious and non-fastidious microorganisms. Trypticase Soy Broth – Single Strength complies with the demands of the DIN Norm 10167 for the detection of Escherichia coli serotype 0157:H7 in foods and FDA-BAM for the isolation of enterohemorrhagic Escherichia coli (EHEC). In addition the media conforms to the formula of the US Pharmacopoeia.

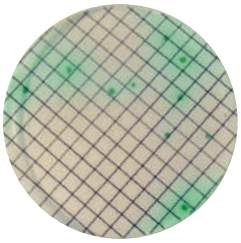
Trypticase Soy Broth – Double Strength
TSB is a medium that will support the growth of a wide variety of microorganisms including aerobic, facultative, and anaerobic bacteria and fungi.

Wallerstein Nutrient Broth (WL) and WL Differential Broth (WLD)
WL Nutrient Broth is for the cultivation and enumeration of yeast and WL Differential Broth is for determination of bacterial count. Use of the medium at pH 5.5 and incubation at 25°C will give reliable counts for brewer's yeast. Adjustment of the pH to 6.5 and incubation at 30°C allows for the selective growth of baker's and distiller's yeast.

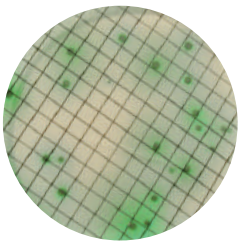
Liquid Media Selection Guide



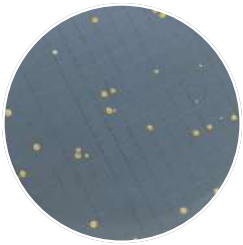
M-Endo Coliform Broth
Cat. No. 10 496 103
Coliform bacteria
E. coli ATCC 25922,
E. aerogenesATCC 13048,
P. aeruginosa ATCC 10145



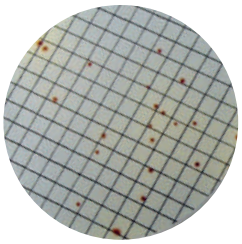
Cetrimide Broth
Cat. No. 10 496 146
Pseudomonas aeruginosa
P. aeruginosaATCC 10145



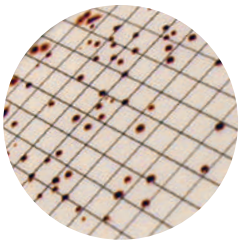
Pseudomonas Broth
Cat. No. 10 496 119
Pseudomonas
P. aeruginosaATCC 10145,
P. aeruginosaATCC 27853



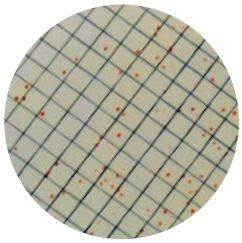
PRY Broth
Cat.No. 10 496 106
PRY
Z.Bailii ATCC 58445



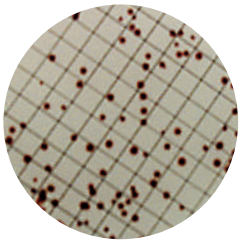
Enterococcus Broth
Cat. No. 10 496 120
Enterococci
E. faecalisATCC 19433



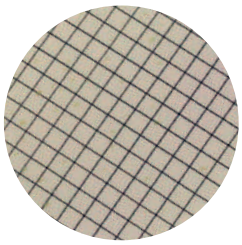
HPC Broth with TTC
Cat. No. 10 496 151
Heterotrophic Plate Count
E. coli ATCC 25922, E. faecalis
ATCC 29212, S. aureusATCC 25923



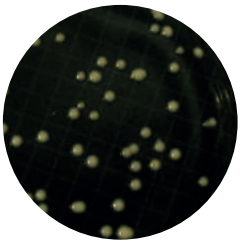
KF-Streptococcus Broth
Cat. No. 10 496 125
Fecal streptococci
E. faecalisATCC 29212,
E. faecalisATCC 19433



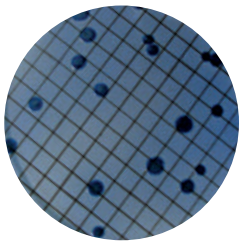
Total Count Media with TTC
Cat. No. 10 496 113
All aerobic bacteria
E. coli ATCC 25922, S. aureusATCC 25923,
P. aeruginosaATCC 10145,
E. faecalisATCC 29212



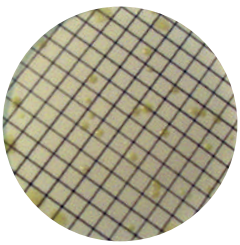
Mannitol Salt Broth
Cat. No 10 496 121
Staphylococci
S. aureusATCC 25923,
S. epidermidisATCC 12228



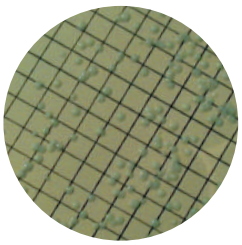
Wallerstein Nutrient Broth
Cat. No. 10 496 108
Sacchromyces cerivisiae
E. coli ATCC 25922,
L. fermentum ATCC 9338,
S. cerevisiaeATCC 9763



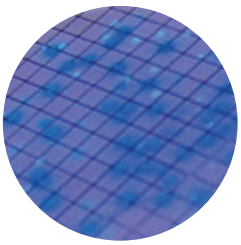
M-FC Broth/M-FC Broth
with Rosolic Acid Cat.
No. 10 496 124/114 Fecal coliforms
E. coli ATCC 25922,
E. aerogenes ATCC 13048



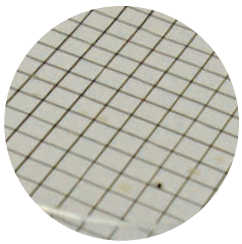
M-TGE Total Count Media
Cat. No. 10 496 102
All aerobic bacteria
E. coli ATCC 25922,
S. aureusATCC 25923



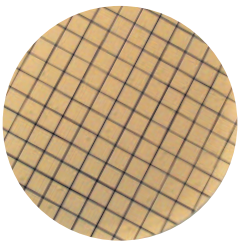
M-Green Yeast and Mold
Cat. No. 10 496 101
Yeast and Mold
C. albicans ATCC 10231,
S. cerevisiaeATCC 9763



MI Broth and MI Agar
Cat. No. 10 496 192/847
Coliform bacteria and Escherichia coli
E. coli ATCC 25922,
E. aerogenesATCC 13048

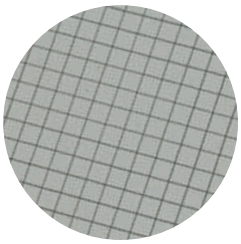


MRS Broth
Cat. No. 10 496 112
Lactobacilli
L. plantarum ATCC 8014



Orange Serum Media
Cat. No. 10 496 104 Various
L. acidophilusATCC 314,
S. cerevisiaeATCC 9763

Liquid Media Selection Guide



Wallerstein Differential Broth
Cat. No. 10 496 109
Lactobacillus plantarum
E. coli ATCC 25922,
L. fermentum ATCC 9338,
S. cerevisiaeATCC 9763

Trypticase Soy Broth
Single Strength
Cat. No. 10 496 707
B. subtilis ATCC 6633,
C. albicansATCC 10231,
E. coli ATCC 25922,
S. aureus ATCC 25923

Trypticase Soy Broth
Double Strength
Cat. No. 10 496 708
B. subtilis ATCC 6633,
C. albicansATCC 10231,
E. coli ATCC 25922,
S. aureus ATCC 25923

Brilliant Green Bile Broth 2%
Cat. No. 10 496 710
Coliform bacteria
E. coli ATCC 25922,
E. aerogenesATCC 13048

EC Broth
Cat. No. 10 496 714
Coliform bacteria
E. coli ATCC 25922,
E. aerogenesATCC 13048

EC Broth with MUG
Cat. No. 10 496 709
Escherichia coli
E. coli ATCC 25922

Hygiene SwabCheck
Cat. No. 10 498 407

Coliform SwabCheck
Cat. No. 10 498 406

Listeria SwabCheck
Cat. No. 10 498 408

Buffer Swabs
Cat. No. 10 498 305/10 498 306

Neutralizing Buffer Swabs
Cat. No. 10 498 303/10 498 304

Legend

- Water
- Beverages
- Food
- Wastewater
- Dairy
- Pharmaceutical
- Cosmetics

2 mL Ampoules
Ordering information

Product Code	Description	Packaging
10496146	Cetrimide Broth	50/pk
10496120	Enterococcus Broth	50/pk
10496164	Heterotrophic Plate Count (HPC) Broth with TTC	50/pk
10496151	HPC Broth	50/pk
10496125	KF-Streptococcus Broth	50/pk
10496121	Mannitol Salt Broth	50/pk
10496103	M-Endo Coliform Broth	50/pk
10496124	M-FC media	50/pk
10496114	M-FC Broth with rosolic acid	50/pk
10496116	M-Green Select Broth	50/pk
10496101	M-Green Yeast and Mold Broth	50/pk
10496192	MI-Broth Media	50/pk
10496112	MRS Broth	50/pk
10496102	M-TGE Broth	50/pk
10496104	Orange Serum Broth	50/pk
10496106	PRY Broth	50/pk
10496119	Pseudomonas Broth	50/pk
10496113	Total Count Broth with TTC	50/pk
10496108	Wallerstein Broth	50/pk
10496109	Wallerstein Differential Broth	50/pk

9 mL Vials
Ordering information

Product Code	Description	Packaging
10496710	Brilliant Green Bile Bottled Broth, with Durham tubes	20/pk
10496714	EC Bottled Broth, with Durham tubes	20/pk
10496709	EC with MUG, Bottled Broth	20/pk

Bottled Media
Ordering information

Product Code	Description	Packaging
10496851	MI Media, Bottled Broth, 50 mL,	1/pk
10496847	MI Media, Bottled Agar, 50 mL	1/pk
10496705	M-Green Yeast and Mold Bottled Agar, 100 mL	1/pk
10496707	Trypticase Soy Broth (TSB) Single strength, Bottled Broth, 100 mL	1/pk
10496708	Trypticase Soy Broth (TSB) Double strength, Bottled Broth, 100 mL	1/pk
10496744	ColiCheck with MUG, Presence-Absence (P-A) Test Kit with Sample Bottles	30/pk

SwabCheck™

swabcheck

SwabCheck: how to use

Open the sterile pack, remove the swab and wipe it over an area of about 10 x 10 cm.Then twist off the cap of the medium tube and insert the swab so that the cap fits tightly. Label the sample tube and incubate at the appropriate temperature.

A change in color indicates the presence of the microorganism in question. The quicker the color change occurs, the higher the bioburden. If no color change has been observed after the maximum incubation period has elapsed, then the corresponding microorganism is not present. GVS Life Sciences offers SwabCheck in packs of 25 pieces. With a shelf-life of 12 months.

The SwabCheck principle

The surface is wiped with a cellulose swab and any bacteria collected are transferred via the swab into a tube containing a special medium with an indicator dye, which is then incubated. A single bacterium is sufficient to cause a color change. This means that SwabCheck is about 1000 times more sensitive than the conventional ATP method. This accuracy is particularly important in the food industry. With this simple method, it is possible to identify microorganisms such as Listeria monocytogenes, which must not be present in any concentration in food and beverages.

Features & Benefits:

The right test for each type of contamination

- Qualitative and semi-quantitative hygiene control
- Sterile packed and ready-for-use
- Easy to handle
- Rapid results
- Long shelf-life

Neutralizing Buffer Swabs

Neutralizing buffer swabs are used in the monitoring of surfaces for total bacterial count. Neutralizing buffer inactivates the bactericidal and bacteriostatic effects of chlorine and quaternary ammonium detergents. Without exhibiting toxic effects on microorganisms. This permits the transfer of swabbed organisms to the laboratory without loss in viability. Neutralizing buffer is not designed to culture and enumerate microorganisms.

Total Count Swab Kit

Buffer Swabs

Buffer Swabs are used for the collection of surface contamination from flat or convoluted surfaces prior to transport to a laboratory for culture and enumeration. Buffer swabs contain no bacteriostatic or bactericidal compounds and cannot suppress the action of detergents.

Coliform SwabCheck

SwabCheck

SwabCheck is used as an indication of hygiene on contact surfaces. SwabCheck changes color from purple to yellow. The color change is based on acid reaction with the indicator. The more rapid the color change, the higher the level of bacteria in the sample. SwabCheck is useful in determining the sanitation levels of preparation surfaces, filling ports, and processing areas in beverage and food processing plants, dairies, restaurants, and healthcare facilities.

Coliform SwabCheck

Escherichia coli and coliforms are used traditionally as indicator organisms for fecal contamination in water and other environmental samples. Detection of these organisms usually points to poor hygiene at some stage in the production process or pollution of water at source. The presence of coliforms is indicated by a color change from brown to yellow. The more rapid the color change the higher the level of coliform bacteria.

Hygiene SwabCheck

Easy to use: The Hygiene SwabCheck shows an obvious color change from red to yellow. The time taken for this change is an indication of the level of contamination. This should be used in conjunction with known specification levels of your process/product. Rapid screening hygiene test is a same day test that will detect gross bacterial and fungal contamination of work surfaces, equipment machinery or other sampling sites.

Swabs

Listeria SwabCheck
Listeria Isolation SwabCheck is designed to be used alongside traditional selective methods to improve the quality system and minimize the risk of Listeria contamination. This simple to use diagnostic test can be applied anywhere in the environment and on foodstuffs where the presence of Listeria species would be critical.
Listeria sp and specifically Listeria monocytogenes are rapidly becoming the most important pathogen in the food industry; regulatory bodies from around the world are insisting that all food products are Listeria free. Listeria Isolation SwabCheck works on an enhanced Esculin media formulation. The hydrolysis of esculin gives a distinctive black/brown precipitate. Inhibitors and antibiotics are present in the media, which will inhibit the growth of non-Listeria species.

SwabCheck Escherichia coli
SwabCheck Escerichia coli is used for the detection of Escherichia coli on surfaces. The presence of fluorescence using a longwave UV light source confirms the presence of Escherichia coli and any further confirmation is not required. MUG detects anaerogenic strain that may not be detected in the conventional procedure. Lactose is a source of energy. Casein peptone provides additional nutrients. The mixture of bile salts is inhibiting for gram-positive bacteria, particularly bacilli and fecal streptococci. The substrate 4-methylumbelliferyl-b-D-glucuronide is hydrolyzed by an enzyme, b-glucuronidase, possessed by most Escherichia coli and a few strains of Salmonella, Shigella, and Yersinia, to produce a fluorescent end product, 4-methylumbelliferone. The presence of Escherichia coli is detected by the appearance of fluorescence throughout the tube.

Total Count Swab Kit
Total Count Swab Kit is used for the non-selective development and enumeration of all aerobic bacteria on surfaces in accordance with Hazard Analysis and Critical Control Points (HACCP). The kit includes the swabs and culture medium, packaged with a membrane device, providing a quantitative result. All bacteria develop on TGE media and produce a range of different colored and sized colonies. It is not possible using TGE to presumptively identify any bacteria. Identification can only be undertaken using traditional microbiology techniques following initial colony development.

Hygiene SwabCheck

Yeast and Mold Swab Kit
Yeast and Mold Swab Kit is used for the enumeration of yeast and molds on surfaces in accordance with HACCP. The kit includes the swabs and culture medium, packaged with a membrane device, providing a quantitative result. M-Green yeast and mold is an improved modification of the liquid medium, and was developed to improve efficiency of detection and enumeration of fungi in sugar based drinks using the membrane filtration method. This medium has a low pH, which inhibits bacterial growth. The addition of bromocresol green, which diffuses into fungal colonies as an alkaline reaction, allows them to be easily identified. Metabolic by-products from the developing colonies diffuse into the surrounding medium, further reducing the pH that aids in the inhibition of bacterial growth, but also produces an acid reaction that causes residual bromocresol green to change to yellow. Green opaque colonies against a yellow background are indicative of the growth of yeasts. Mold colonies are green and filamentous.

Listeria SwabCheck

Yeast and Mold Swab Kit

Polywipe Sponge
Polywipe Sponge is used for the recovery of microorganisms from a surface. Polywipe is a blue sponge that is premoistened with neutralizing buffer to neutralize the effects of surface disinfectants. The sponge material is selected to be free of the preservatives found in commercially available sponges, which can inhibit microorganism growth. Polywipe sponges are biocide free and tested for zero toxicity to microorganisms. Each sponge is individually wrapped in a peel pouch and gamma irradiated to ensure sterility.

Polywipe Sponge

Buffers

Buffers Ordering information

Product Code	Description	Volume	Quantity
10498303	Neutralizing Buffer Swabs	4 mL	125/pk
10498304	Neutralizing Buffer Swabs	4 mL	500/pk
10498305	Buffer Swabs	4 mL	125/pk
10498306	Buffer Swabs	4 mL	500/pk

SwabCheck Ordering information

Product Code	Description	Volume	Quantity
10498404	SwabCheck	4 mL/tube	125/pk
10498402	SwabCheck Escherichia coli	4 mL/tube	125/pk
10498315	Total Count Swab Kit	2.8 mL/tube and membrane device	30/pk
10498316	Yeast and Mold Swab Kit	2.8 mL/tube and membrane device	30/pk
10498406	Coliform SwabCheck	Individually wrapped package	25/pk
10498407	Hygiene SwabCheck	Individually wrapped package	25/pk
10498408	Listeria SwabCheck	Individually wrapped package	25/pk
10498521	Polywipe Sponge	Individually wrapped pre-moistened sponge	50/pk

Dilution Bottles

Prefilled sterile dilution bottles are designed for sample dilution of water, dairy products, foods, and pharmaceuticals prior to microbiological testing. Final pH for all solutions is 7.2 pH ±0.2 pH at 25°C. They come in an easy open, flip-top, plastic container with a tamper-evident seal.

Butterfield's Phosphate Buffer contains monobasic potassium phosphate and is used extensively in the food, dairy, and pharmaceutical industries. Offered in 90 ml and 99 ml volumes for easy 1:10 and 1:100 dilutions. It is recommended as a general diluent in laboratory procedures by the Federal Drug Administrations and in the Bacteriological Analytical Manual. This product is prepared according to Standard Methods for the Examination fo Water and Wastewater for use in water testing.

Phosphate Buffer with magnesium chloride is used as the diluents for the preparation of dilutions in plate counts in the dairy and food industries. It is recommended by APHA for the recovery of injured microorganisms from dairy and food samples. Contains deionized water, monopotassium phosphate, and magnesium chloride.

Ordering information

Product Code	Description	Volume	Quantity
10498503	Dilution Bottle, Butterfield's Buffer	99 mL	72/pk
10498504	Dilution Bottle, Butterfield's Buffer	90 mL	72/pk
10498505	Dilution Bottle, Phosphate Buffer Magnesium Chloride	99 mL	72/pk

Analytical Funnels

GVS microbiological monitors and analytical funnels provide a complete system solution for liquid sample preparation. Each single-use, pre-sterilized filtering unit consists of a measured filter funnel, base, pad, membrane, removable lid and plug. This all-in-one system easily converts from the 100 mL filtration unit to a petri dish, which can be labeled and incubated for culturing. The GVS funnels meet the standard method requirements for a disposable device.

Each sterile analytical funnel includes a removable NC membrane.

Analytical funnels are ready-to-use 100 ml filtration units with membrane and culturing devices.

After filtration the membrane of the analytical funnel can be used for a wide range of qualitative and quantitative biological analysis.

Step 1

Step 2

Step 3

Step 4

Workflow

1. Sample filtration
2. Remove the upper part from the base
3. Put the base on the membrane lifting device
4. Separate the membrane from the pad and transfer the membrane into a petri dish with a sterile pad

Advantages

- **Saves up to 50% in time**
  - No flaming
  - Ready-to-use
  - Presterilized
- **Safety at work**
  - No flaming
  - Minimizes the risk of cross-contamination
- **Easy Handling**
  - Ready-to-use filtration unit
  - Easy release of membrane

Ordering information

Product Code	Description	Quantity
10497507	Funnel, Nitrocellulose, White/Black Grid Sterile 0.2 µm	50/pk
10497510	Funnel, Nitrocellulose, White/Black Grid Sterile 0.2 µm , individually packaged	50/pk
10497504	Funnel, Nitrocellulose, White/Black Grid Sterile 0.45 µm	50/pk
10497506	Funnel, Nitrocellulose, White/Black Grid Sterile 0.45 µm, individually packaged	50/pk
10497508	Funnel, Nitrocellulose, Black/White Grid Sterile 0.45 µm	50/pk
10497509	Funnel, Nitrocellulose, Black/White Grid Sterile 0.45 µm, individually packaged	50/pk

Microbiological Monitors

GVS microbiological monitors and analytical funnels provide a complete system solution for liquid sample preparation. Each single-use, pre-sterilized filtering unit consists of a measured filter funnel, base, pad, membrane, removable lid and plug. This all-in-one system easily converts from the 100 mL filtration unit to a petri dish, which can be labeled and incubated for culturing. The GVS funnels meet the standard method requirements for a disposable device.

Each sterile monitor includes a NC membrane fixed and welded to the dish.

Monitors are single use, pre-sterilized filtering units with welded fixed membranes and culturing devices.

Microbiological Monitors are ideal for monitoring contaminants in liquid samples from raw materials to finished products. After the filtration is complete, 2 ml of microbiological media is added and the unit is converted into a petri dish for culturing the contaminants collected.

Step 1

Step 2

Step 3

Step 4

Workflow

1. Sample filtration
2. Remove the funnel
3. Add 2 ml of microbiological media
4. Replace the lid and incubate

Advantages

- **Saves up to 70% in time**
  - No flaming
  - Ready-to-use
  - Presterilized
- **Safety at work**
  - No flaming
  - Minimizes the risk of cross-contamination
- **Easy Handling**
  - Ready-to-use filtration unit

Ordering information

Product Code		Description	Quantity
47 mm	56 mm		
10497511	10497603	Monitor, Nitrocellulose, 0.2 µm, white/black grid, sterile	50/pk
10497500	10497600	Monitor, Nitrocellulose, 0.45 µm, white/black grid, sterile	50/pk
10497501	n/a	Monitor, Nitrocellulose, 0.45 µm, white/black grid, sterile, individually packaged	50/pk
10497502	10497601	Monitor, Nitrocellulose 0.45 µm, black/white grid, sterile	50/pk
10497503	10497602	Monitor, Nitrocellulose, 0.8 µm, black/white grid, sterile	50/pk

47 mm Filter Holder - Gravi-Seal™

The GVS polysulfone 47 mm autoclavable filter holder combines The Gravi-Seal filter holder uses a unique gravity held design that allows for one-handed operation with no danger of filter by-pass or sample leakage even when using depth filters.

The filter holder combines the key features and benefits needed in one simple unit, making it a tremendous value. The funnel includes only two components with no required clamps or locking devices to manipulate.

The durable and break-resistant polysulfone (PS) unit is autoclavable and chemically resistant for use in cell culturing and microbiological applications and filtering.

The unit includes graduated up to 350 mL with 50 mL intervals.

Each unit is supplied with a #8 rubber stopper to allow use with standard 1L filter flasks or vacuum systems such as the GVS 3- or 6- place Manifold.

Features & Benefits

- Durable - break resistant, no extra parts to break or wear out
- Uses a 47 mm depth filter disc
- One-handed operation
- Only two parts
- No clamps, wheel locks, or magnets to wear out
- Solid, stable and easy to use

Typical Applications

- Filtering liquids for sterility
- Particle removal
- General filtration
- Autoclavable

Ordering information

Product Code	Description	Quantity
1213865	Gravi-Seal PS Analytical Filter Holder (complete unit): 47 mm	1/pk
1214124	Gravi-Seal PS Analytical Filter Holder (complete unit): 47 mm	3/pk
1213883	Gravi-Seal PS Analytical Filter Holder, Base Only	1/pk
1213882	Gravi-Seal PS Analytical Filter Holder, Funnel Only	1/pk

Multi-Position Filtration Manifold

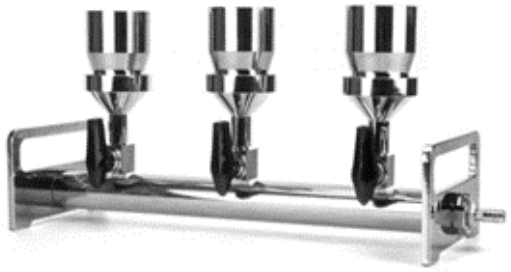
- Different sizes: 3 and 6 places
- The spin-lock design: The manifold uses a spin-lock connection which facilitates fast and stable installation without clamps.
- It can be easily dismantled for the cleaning operations or to check each part.
- The assembling is even possible according to user's needs, choosing among various uniform type, different type or mixed form type columns
- The base structural materials is in satin Stainless Steel with sides handles in anodized aluminium
- One side is fitted with hose-barb for 2 different diameters of vacuum hoses ø 8 and 12 mm, the opposite side is fitted with a stopper.
- Hose-barb and stopper are interchangeable to facilitate the proximity to the vacuum source
- Each part is easily disassembled, inspectable, autoclavable at 121°C for 30 minutes, washable, sanitizable or sterilizable

Ordering information

Product Code	Description
MANIFW16711023A	3-Branch Stainless Steel Manifold, for Gravi-Seal™ or other devices with rubber stopper
MANIFW16711026A	6-Banch Stainless Steel Manifold, for Gravi-Seal™ or other devices with rubber stopper

Stainless steel Manifold

- Stainless Steel 500 ml,graduated 250 and 500 ml
- Stainless Steel 300ml, graduated every 50 ml
- Stainless Steel 100 ml, graduated at 50 ml
- Available Prefilter devices, that provides a physical separation on two filters which have been set up in series, to clarify first



Ordering information

Product Code	Description
MANIFW16710323A	3-Branch Stainless Steel Manifold
MANIFW16710324A	3-Branch Stainless Steel Manifold incl. 3 x 100 ml Stainless Steel Filter Cups
MANIFW16710123A	3-Branch Stainless Steel Manifold incl. 3 x 300 ml Stainless Steel Filter Cups
MANIFW16710124A	3-Branch Stainless Steel Manifold incl. 3 x 500 ml Stainless Steel Filter Cups
MANIFW16710326A	6-Branch Stainless Steel Manifold
MANIFW16710327A	6-Branch Stainless Steel Manifold incl. 6 x 100 ml Stainless Steel Filter Cups
MANIFW16710126A	6-Branch Stainless Steel Manifold incl 6 x 300 ml Stainless Steel Filter Cups
MANIFW16710127A	6-Branch Stainless Steel Manifold incl 6 x 500 ml Stainless Steel Filter Cups

Stainless Steel Funnel Lid

Ordering information

Product Number	Description
SSFL16710311A	100 mL Stainless Steel Funnel Lid, Suitable for 100 mL Stainless Steel Filter Cup (Cylinder Type)
SSFL16710313A	300 mL Stainless Steel Funnel Lid, Suitable for 300 mL Stainless Steel Filter Cup (Cylinder Type)
SSFL16710315A	500 mL Stainless Steel Funnel Lid, Suitable for 500 mL Stainless Steel Filter Cup (Cylinder Type)

Manifold for Speed Pack or 1+Pac and funnels

- This mushroom shaped column with polished inner part is supplied with a membrane support disc in sintered SS Ø 40 mm removable with a finger

PP disposable funnels for separated membrane

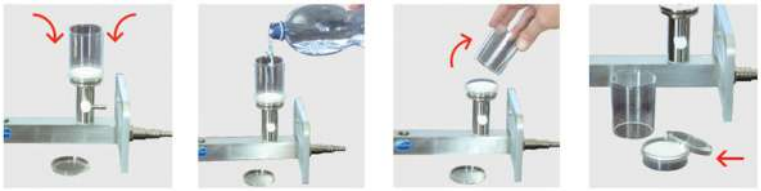
- PP funnels 100 and 200 capacity, graduated
- In packs of 100 pieces divided into 10 sterile boxes of 10 pieces
- Disposable type, easy to use

Ordering information

Product Code	Description
MANIFW16711088A	3-Branch Stainless Steel Manifold
MANIFW16711089A	6-Banch Stainless Steel Manifold
FUNNELA100SR	PP funnel 100 ml sterile for Speed-Pack - 150pcs
FUNNELA250SR	PP Funnel 250 ml sterile for Speed-Pack - 150 pcs

Manifold for Analytical Funnel and Monitors

- On this mushroom shaped column are mounted graduated filtration devices as GVS Analytical Funnel and Microbiologic Monitor, with inner Ø 46,5.
- Devices are mounted simply by a light finger pressure
- Analytical Funnel and Microbiologic Monitor
- Pouring the sample
- Removing the cylinder
- Petri ready for incubation



Ordering information

Product Code	Description
MANIFW16700323A	3-Branch Stainless Steel Manifold
MANIFW16700326A	6-Branch Stainless Steel Manifold

PP/PC Waste Bottle

Product Number	WABO16720031A	WABO16720032A	WABO16720033A
Bottle	PC	PC	PC
Bottle Cover	PC	PC	PC
Spill-Proof Buoy	PP	PP	PP
Description			
Capacity (mL)	1000	2000	3000
Outlet (mm)	8	8	8
Spill-Proof Buoy	Yes	Yes	Yes

WABO16720031A

WABO16720032A

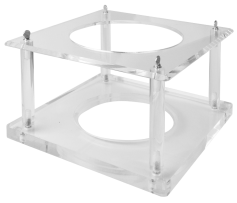
WABO16720033A

PC Waste Bottle

Description	Material		
Product Number	WABO16712034A		
Capacity (mL)	4000	Bottle	PC
Outlet (mm)	8	Bottle Lid	ABS
Spill-Proof Buoy	Yes	Float Switch	PP
Autoclavability(121℃)	Yes		

Stand for Waste Bottle

Description	Product Number
Stand for waste bottle designed for Stabilizing the bottle in filtration work	WABO16720039A



Silicon Tubing

Product Number	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)	Length (mm)
SITU16802001A	12	6	3	1
SITU16802101A	14	8	3	1
SITU16802201A	16	10	3	1

Product Number	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)	Length (mm)
SITU16803001A	12	8	3	1

Oil-Free Piston Vacuum Pumps

- No air pollution, maintenance free (driven by Piston, without the need of lubricant, regular oil changes and maintenance)
- The oil-free piston vacuum pump provides continuous, reliable, high flow vacuum for your container
- Pumps are equipped with vacuum regulator to adjust vacuum
- Pumps has a built-in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down

TÜV SÜD Product Service

Products certificated for sales in EU, US and Asia Pacific

Model	V300	V400	V410
Power (V/Hz)	220 / 50	220 / 50	220 / 50
Max. power (W)	60	80	80
Max. current (A)	0.3	0.4	0.4
Max. vacuum (mbar)	100	100	30
Max. flow rate (L/min)	17	34	19
Motor rotation (RPM)	1450	1450	1450
Port thread (mm)	9	9	9
Dimension WxDxH (mm)	272 x 142 x 165	310 x 152 x 165	310 x 152 x 165
Weight (kg)	4.4	5.4	5.4
Noise level (dB)	50	60	50

Ordering information

Product Code	Description	Quantity
OIFPUMPV300L17A	Ultimate Vacuum: 100mbar; Max. Flow Rate: 17 L/min	1/pk
OIFPUMPV400L34A	Ultimate Vacuum: 100 mbar; Max. Flow Rate: 34 L/min	1/pk
OIFPUMPV410L19A	Ultimate Vacuum: 30 mbar; Max. Flow Rate: 19 L/min	1/pk
OIFPUMPV600L60A	Ultimate Vacuum: 150 mbar; Max. Flow Rate: 60 L/min	1/pk
OIFPUMPV610L40A	Ultimate Vacuum: 30 mbar; Max. Flow Rate: 40 L/min	1/pk

Available Voltage : 110V or 220V
Plug-Type : EU, US, UK, Australian, India, Japan, Switzerland

Chemical Resistant Diaphragm Vacuum Pumps

- Chemical and petrochemical Industry
- Pharma Industry
- Filtration processes
- Vacuum distillation
- Rotary evaporation
- Vacuum and centrifugal concentration
- Solid phase extraction
- Conventional drying and gel drying
- Advanced substitute for water-jet pumps

Model	C300		C400	
Powe	115V/60Hz	220V/50Hz	115V/60Hz	220V/50Hz
Max.power(W)	70	60	90	95
Max.current(A)	1.6	9.5	1.4	0.5
Max.vacuum(mbar)	100		120	
Max.Flow Rate(L/min)	22	22	34	34
Motor Speed(rpm)	1700	1450	1700	1450
Number of Stages	Single		Single	
Outlet(mm)	10		10	
Size WxDxH(mm)	233*110*210		294*156*195	
Weight(kg)	6		8.5	
Noise Level(dB)	50		50	

Ordering information

Product Code	Descirption
DIAPUMPC300L22AE	Ultimate Vacuum: 100 mbar; Max. Flow Rate: 22 L/min
DIAPUMPC400L34AE	Ultimate Vacuum: 120 mbar; Max. Flow Rate: 34 L/min
DIAPUMPC410L25AE	Ultimate Vacuum: 13 mbar; Max. Flow Rate: 25 L/min
DIAPUMPC510L34AE	Ultimate Vacuum: 8 mbar; Max. Flow Rate: 34 L/min;
DIAPUMPC600L60AE	Ultimate Vacuum: 90 mbar; Max. Flow Rate: 60 L/min
DIAPUMPC610L37AE	Ultimate Vacuum: 2-4 mbar; Max. Flow Rate: 37 L/min

50 mm Vent Filter

Characteristics

Membrane: hydrophobic PTFE reinforced with polypropylene
Porosities: 0.45 µm or 0.20 µm
Housing: Polypropylene Ultrasonically welded
Connectors: 6 mm (1/4 in) to 12 mm (1/2 in) stepped barb
Filter Area: 19.6 cm^2
Air Flow Rate: 32 L/min at 1 bar (0.45 µm), 27 L/min at 1 bar (0.20 µm)
Housing Diameter: 63 mm
Housing Length: 53 mm
Maximum Pressure: 3.5 bar (approx. 50 psi)
Sterilization: Autoclave at 121°C or ETO

Typical Applications

- Sterile venting of filling vessels and carboys
- Autoclave venting
- Low volume sterile filtration of non-aqueous fluids
- In-line sterilization of and particulate removal from air and gases

Vent Filter - Non Sterile
Ordering information

Membrane Material	Pore Size(µm)	End Fitting	Housing	Color	Product Code Packaging 100/pk
PTFE	0.20	Barb Connectors	Polypropylene	Transparent	VF50ANPPT002AC01
PTFE	0.45	Barb Connectors	Polypropylene	Transparent	VF50ANPPT002AC01

Vent Filter - Sterile
Ordering information

Membrane Material	Pore Size(µm)	End Fitting	Housing	Color	Product Code Packaging 10/pk
PTFE	0.20	Barb Connectors	Polypropylene	Transparent	VF50ASPPT002AX01
PTFE	0.45	Barb Connectors	Polypropylene	Transparent	VF50ASPPT004AX01

Automatic Device of Filter Membrane

Product Instruction

The Automatic Device of Filter Membrane is a continuous membrane for dispensing individual aseptic packaging. The membrane device automatically removes the aseptic packaging of the filter membrane, even available model with a touch-free mode induced by an optical sensor.. No manual operation, free the user's hands, the membrane is distributed in the process, do not contact with other items, to avoid the risk of contamination.

Operating Principle

The membrane and the transparent are fixed on the two scrolls by the roll clamp, and the transparent is separated from the membrane by the rotation of the two scrolls, so as to distribute the membrane. When the membrane is distributed, it does not come into contact with other items to avoid the risk of contamination.

Range of Application

- Pharmaceutical industry: microbial limit inspection of purified water, water for injection, raw materials and oral liquid, tablets, capsules, biological products and preparations.
- CDC: air conditioning condensate, drinking water and other water quality of the total number of bacterial colony
- inspection and detection of pathogens.
- Food industry: Check the total number of colonies of beverages, mineral water and purified water. Cosmetics and chemical industry: all kinds of water samples that need to be tested for microorganisms.

Technical feature

- Stainless steel body spray processing, small size, beautiful shape.
- Available with Power Supply or lithium-ion batteries.
- AC drive can be connected to the charger.
- Automatic distribution filter membrane.
- Available model with optical sensor to take the film, without manual operation touch the button to take the film.
- Fast and reliable transfer of filter membrane, filter membrane transfer by reel drive technology.
- The filter membrane is easy to load.
- Automatic collection of protective packaging.
- Original color calibration technology, accurate detection.

Technical Parameters

- Input voltage: 80 to 264 VAC
- Frecuency: 47 -63 Hz
- Power Supply: 12 VDC
- 30 ºC +70 ºC wide range working temperature

Transformer and adapter plugs according to countries

Ordering information

Product Code	Description	Qty.
SPMD0003CH	Membrane Dispenser, Powersupply	1 pc

Dimensions and Weight	Value	Units
Dimensions (L × W × H)	209 × 182 × 206	mm
Weight	3.5	kg

Enumeration of Legionella

Legionella is a bacterial micro-organism responsible for Legionellosi disease.

Determination Method	Membrane
Legionella ISO11731: Concentration Method	PCTE or PES Membrane, 47mm, 0.2um pore size
Legionella ISO11731: Direct Culturing Method	NC or MCE Membrane, 47mm, 0.2um or 0.45um pore size

The ISO 11731 International Standard Water Quality - Enumeration of Legionella specifies the culture and analysis methods for the isolation of Legionella and enumeration in water samples. Test methods include concentration by membrane filtration, dilution or directly plated.

For direct placing on culture media, ISO 11731 recommends the use of nitrocellulose (NC) or mixed cellulose ester (MCE) membranes for culturing media; diameter of 47mm or 50mm with rated pore sizes of 0.2um or 0.45um.

For concentration and elution: ISO 11731 recommends the use of PCTE or PES membrane filters, diameter 47mm to 142 mm with rated pore sizes of 0.2 µm for concentration followed by a washing procedure.

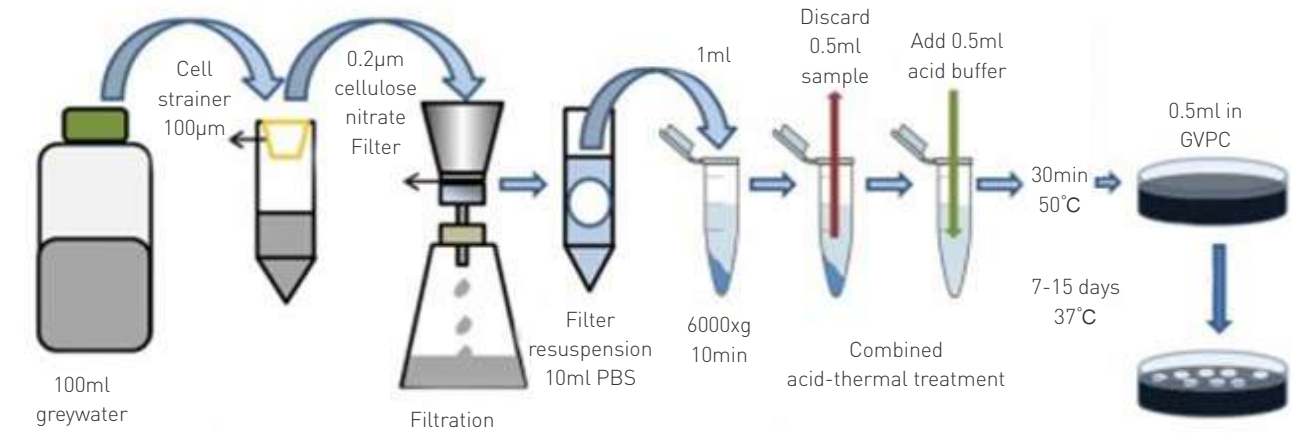
Determination Method	Membrane
Legionella ISO 12869	FLAME FAST All-in-ONE kit

Traditional culture culture-based detection of bacteria is often laborious and time consuming.

PCR-based methodologies are generally more specific, informative immediate strain identification), sensitive, and faster. Although, a pre-enrichment step is still often needed, the simplicity and time saving feature of the PCR reaction has made it increasingly applicable for detection of bacterial pathogens.

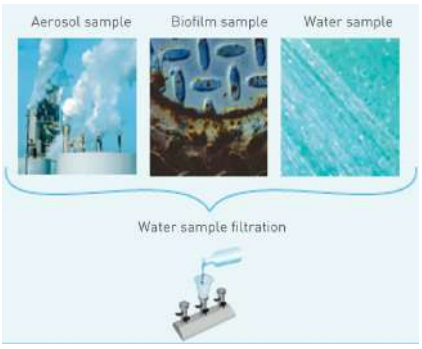
PCR based ISO standard methods, such as ISO12869 rules how to detect Legionella

WORKFLOW OF ACTUAL METHODS WITH CONVERGENCE ON CONFIRMATION AND SEROTYPING STEP

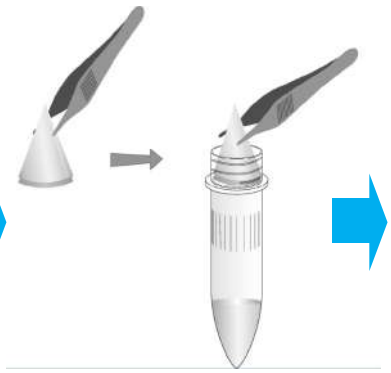


Confirmation and Serotyping of L. pneumophila by Latex

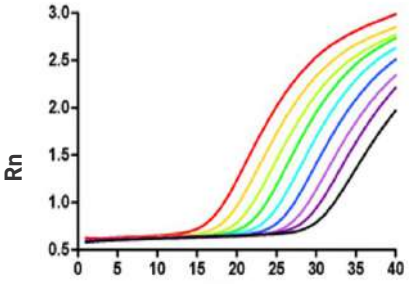
Confirmation and Serotyping of L. pneumophila by FLAME Fast L. Pneumofia and SG1 Multiplex kit



Water sample filtration



Extraction of Legionella DNA from



Detection and quantification of Legionella DNA by qPCR

Polyethersulfone (PES) Membrane

ULTRASep
Polyethersulfone
Membrane

GVS Polyethersulfone (PES) Filtration Membrane is hydrophilic and cast from pure polyethersulfone polymer. It is designed to remove particulates during general filtration and its low protein and drug binding characteristics make it ideally suited for use in life science applications.

Product Uniformity and High Sensitivity Maximize Performance

This strong, microporous film asymmetric membrane is constructed from a high-temperature polyethersulfone polymer that is acid and base resistant. Its strength and durability are advantageous during usage that involves aggressive handling or automated equipment. GVS PES Filtration Membrane is naturally hydrophilic without added wetting agents and has low extractables.

Due to its inherent uniform porosity and controlled pore size, GVS PES Filtration Membrane efficiently removes particulates from solutions during general filtration.

Features & Benefits

- Hydrophilic: Eliminates the need for wetting agents that can potentially interfere with analyses
- Low extractables: Ensures test results will not be compromised by wetting agents or other extractables
- Superior burst strength: Protects the integrity of the membrane under high pressure
- Lot-to-lot consistency: Quality checks, both down and across the membrane, ensure dependable results every time

Typical Applications

- Protein and enzyme filtration and sterilization
- Biological fluid filtration and sterilization
- Pharmaceutical sterilization
- Environmental water studies

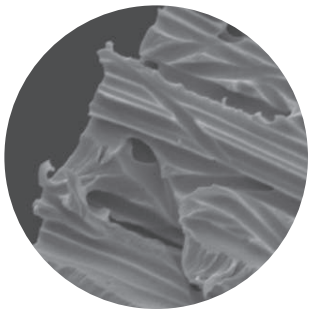
Performance

Pore Size (µm)	Flow Time (s)	Volume/Vacuum (mL/in Hg)	Flow Rate (mL/min/cm^2 @ 10 psi)	Bubble Point (psi)
0,2	35-70	250/20	22.72-45.45	50-70

Ordering information

Product Code	Pore Size (µm)	Dimension (mm)	Description	Packaging
1226158	0.2 µm	47 mm	PES white sterile single packed	200/pk
1226159	0.4 µm	47 mm	PES white sterile single packed	200/pk

Polycarbonate Track Etched (PCTE) Membrane



PORETICS
PCTE Membrane

GVS Life Sciences Polycarbonate Track Etched (PCTE) Membrane is made from a thin polycarbonate film with precisely defined pores. The proprietary manufacturing process provides increased control over pore size and density for absolute size separation. This unique process ensures the physical properties of each membrane precisely fit specification.

Characteristics

- Smooth, thin, glass-like surface is suitable for microscopy and cellular applications
- Superior strength allows for aggressive handling
- Resists chemical staining to ease microscopic visualization

Typical Applications

- Legionella test (UNI EN ISO 11731_2017)

Nominal Product Characteristics

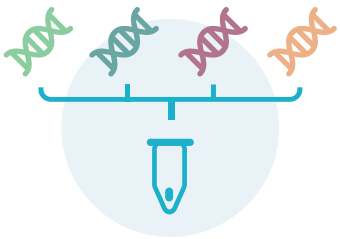
Thickness	10 µm
Optical Properties	Semi-translucent
Maximum Operating Temperature	284°F (140°C)
Sterilization	Gamma Irradiation
Autoclavable	Yes
Wetting Characteristics	Hydrophilic

Ordering information

Product Code	Pore Size (µm)	Dimension (mm)	Description	Packaging
1226157	0.2 µm	47 mm	PCTE white sterile single packed	200/pk
1226156	0.4 µm	47 mm	PCTE white sterile single packed	200/pk

FLAME FAST ALL-IN-ONE QPCR KIT

A NEW ERA IN WATER ANALYSIS
with Membranes and E xtraction kit included



FAST, CERTIFIED, READY TO USE

ALL THE REAGENTS PRE-DOSED AND LYOPHILIZED IN THE REACTION TUBES

TESTED AND VALI-DATED PROTOCOLS

ENERGY SAVING

TRANSPORT AND STORAGE AT ROOM TEMPERATURE

LONG SHELF LIFE

PRODUCT DURABILITY 24 MONTHS

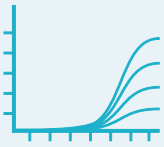
FLEXIBILITY

AVAILABLE VERSION FOR MANUAL OR AUTOMATIC (MAGNETIC BEADS) EXTRACTION

Filter Water sample by dedicated membranes

Extract DNA or RNA

Add extracted DNA or RNA to tube



qPCR Run

AVAILABLE TARGETS FOR WATER ANALYSIS

Legionella pneumophila and Legionella spp. (Compliance with NF T90-471, ISO 11731:2017 and ISO/TS 12869:2019)
Clostridium perfringens
Salmonella spp.
Campylobacter spp
Yersinia spp
Pseudomonas aeruginosa
Campylobacter spp. + Salmonella spp. + Legionella spp.
Clostridium perfringens + Yersinia spp. + Pseudomonas aeruginosa

AVAILABLE SIZE 48 OR 96 TESTS

QUALITY CERTIFIED

Zero risk of operator error, inhibition controls, ISO and relevant standards compliant.

COMPATIBILITY

Compatibility with main Real Time PCR instruments, validated with the principal extraction systems.

FAST

Simultaneous multitarget detection, little bit over one hour analysis, reduced hand on time, for RNA one step RT-PCR.

READY TO USE

No need to add anything else.

INNOVATION

Multiplex Assays to measure more targets by only one run.

RECLOSABLE BAG

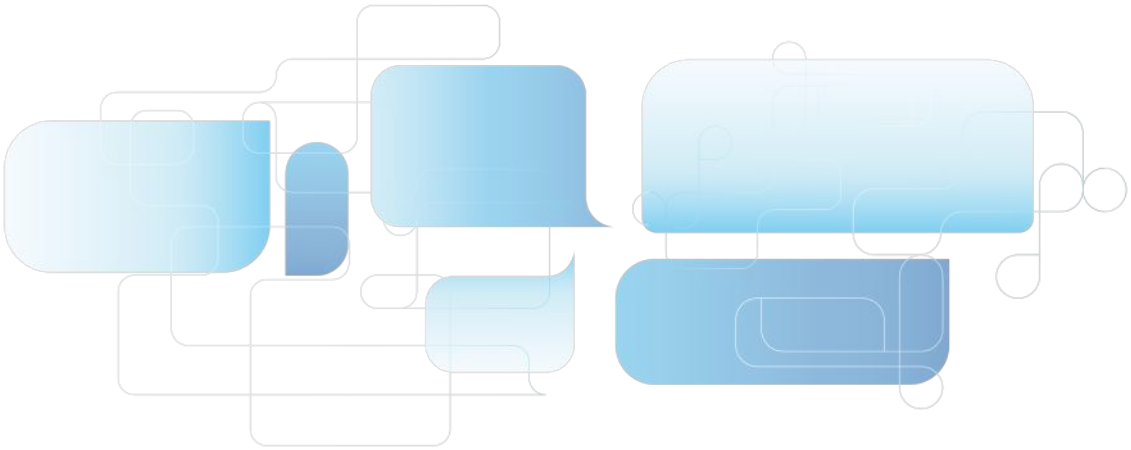
Use one or more tubes, according to your needs.

Ordering information

Product Code	Description
FLFAIO1007Z48	FLAME FAST Clostridium perfringens ALL-IN-1 Kit - 48 rxn (0,1 tubes) (0,1 tubes)
FLFAIO1003Z48	FLAME FAST Salmonella species ALL-IN-1 Kit - 48 rxn (0,1 tubes) (0,1 tubes)
FLFAIO1004Z48	FLAME FAST Campylobacter species ALL-IN-1 Kit - 48 rxn (0,1 tubes)
FLFAIO1072Z48	FLAME FAST Yersinia species ALL-IN-1 Kit - 48 rxn (0,1 tubes)
FLFAIO1073Z48	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit - 48 rxn (0,1 tubes)
FLFAIO1113Z48	FLAME FAST L. pneumophila ALL-IN-1 Kit - 48 rxn (0,1 tubes)
FLFAIO1074Z48	FLAME FAST Legionella species ALL-IN-1 Kit - 48 rxn (0,1 tubes)
FLFAIO1075Z48	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit - 48 rxn (0,1 tubes)
FLFAIO1076Z48	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug. ALL-IN-1 Multi Kit - 48 rxn(0,1 tubes)
FLFAIO1007Z96	FLAME FAST Clostridium perfringens ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1003Z96	FLAME FAST Salmonella species ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1004Z96	FLAME FAST Campylobacter species ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1072Z96	FLAME FAST Yersinia species ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1073Z96	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1113Z96	FLAME FAST L. pneumophila ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1074Z96	FLAME FAST Legionella species ALL-IN-1 Kit - 96 rxn (0,1 tubes)
FLFAIO1075Z96	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit - 96 rxn (0,1 tubes)
FLFAIO1076Z96	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug. ALL-IN-1 Multi Kit - 96 rxn(0,1 tubes)
FLFMAIO1007Z32	FLAME FAST Clostridium perfringens ALL-IN-1 Kit with Magnetic Beads - 48 rxn (0,1 tubes)
FLFMAIO1003Z32	FLAME FAST Salmonella species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,1 tubes)
FLFMAIO1004Z32	FLAME FAST Campylobacter species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,1 tubes)
FLFMAIO1072Z32	FLAME FAST Yersinia species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,1 tubes)
FLFMAIO1073Z32	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,1 tubes)
FLFMAIO1113Z32	FLAME FAST L. pneumophila ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,1 tubes)
FLFMAIO1074Z32	FLAME FAST Legionella species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,1 tubes)
FLFMAIO1075Z32	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit w/MB-32 rx(0,1 tubes)
FLFMAIO1076Z32	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aeru ALL-IN-1 Multi Kit w/MB-32 rx(0,1 tubes)
FLFMAIO1007Z96	FLAME FAST Clostridium perfringens ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1003Z96	FLAME FAST Salmonella species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1004Z96	FLAME FAST Campylobacter species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1072Z96	FLAME FAST Yersinia species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1073Z96	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1113Z96	FLAME FAST L. pneumophila ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1074Z96	FLAME FAST Legionella species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,1 tubes)
FLFMAIO1075Z96	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kitw/MB-96 rx (0,1 tubes)
FLFMAIO1076Z96	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aeru ALL-IN-1 Multi Kit w/MB-96 rx(0,1 tubes)
FLM01007B	FLAME FAST Clostridium perfringens qPCR detection Kit (24 rxn in 0,1ml clear tubes)
FLM01003B	FLAME FAST Salmonella qPCR species detection Kit (24 rxn in 0,1ml clear tubes)
FLM01004B	FLAME FAST Campylobacter species qPCR detection Kit (24 rxn in 0,1ml clear tubes)
FLM01072B	FLAME FAST Yersinia species qPCR detection Kit (24 rxn in 0,1ml clear tubes)
FLM01073B	FLAME FAST Pseudomonas aeruginosa qPCR detection Kit (24 rxn in 0,1ml clear tubes)
FLM01113B	FLAME FAST L. pneumophila qPCR detection Kit (24 rxn in 0,1ml clear tubes)
FLM01074B	FLAME FAST Legionella species qPCR detection Kit (24 rxn in 0,1ml clear tubes)
FLM01075B	FLAME FAST Campylobacter sp, Salmonella sp and Legionella sp qPCR detection Kit -24 rx(0,1 tub)
FLM01076B	FLAME FAST Legionella pn., Legionella sp and Pseudomonas aerug qPCR detection Kit-24 rx(0,1 tub)
FLFAIO1007T48	FLAME FAST Clostridium perfringens ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1003T48	FLAME FAST Salmonella species ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1004T48	FLAME FAST Campylobacter species ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1072T48	FLAME FAST Yersinia species ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1073T48	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1113T48	FLAME FAST L. pneumophila ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1074T48	FLAME FAST Legionella species ALL-IN-1 Kit - 48 rxn (0,2 tubes)
FLFAIO1075T48	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit - 48 rxn (0,2 tubes)
FLFAIO1076T48	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug ALL-IN-1 Multi Kit - 48 rxn (0,2 tubes)
FLFAIO1007T96	FLAME FAST Clostridium perfringens ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1003T96	FLAME FAST Salmonella species ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1004T96	FLAME FAST Campylobacter species ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1072T96	FLAME FAST Yersinia species ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1073T96	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1113T96	FLAME FAST L. pneumophila ALL-IN-1 Kit - 96 rxn (0,2 tubes)

Ordering information

Product Code	Description
FLFAIO1113T96	FLAME FAST L. pneumophila ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1074T96	FLAME FAST Legionella species ALL-IN-1 Kit - 96 rxn (0,2 tubes)
FLFAIO1075T96	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit - 96 rxn (0,2 tubes)
FLFAIO1076T96	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug ALL-IN-1 Multi Kit - 96 rxn (0,2 tubes)
FLFMAIO1007T32	FLAME FAST Clostridium perfringens ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1003T32	FLAME FAST Salmonella species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1004T32	FLAME FAST Campylobacter species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1072T32	FLAME FAST Yersinia species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1073T32	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1113T32	FLAME FAST L. pneumophila ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1074T32	FLAME FAST Legionella species ALL-IN-1 Kit with Magnetic Beads - 32 rxn (0,2 tubes)
FLFMAIO1075T32	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit w/MB-32 rxn(0,2 tub)
FLFMAIO1076T32	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug ALL-IN-1 Multi Kit w/MB-32 rxn(0,2 tub)
FLFMAIO1007T96	FLAME FAST Clostridium perfringens ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1003T96	FLAME FAST Salmonella species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1004T96	FLAME FAST Campylobacter species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1072T96	FLAME FAST Yersinia species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1073T96	FLAME FAST Pseudomonas aeruginosa ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1113T96	FLAME FAST L. pneumophila ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1074T96	FLAME FAST Legionella species ALL-IN-1 Kit with Magnetic Beads - 96 rxn (0,2 tubes)
FLFMAIO1075T96	FLAME FAST Campylobacter sp-Salmonella sp-Legionella sp ALL-IN-1 Multi Kit w/MB-96 rxn(0,2 tub)
FLFMAIO1076T96	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug ALL-IN-1 Multi Kit w/MB-96 rxn(0,2 tub)
FLM01007	FLAME FAST Clostridium perfringens qPCR detection Kit (24 rxn in 0,2ml clear tubes)
FLM01003	FLAME FAST Salmonella qPCR species detection Kit (24 rxn in 0,2ml clear tubes)
FLM01004	FLAME FAST Campylobacter species qPCR detection Kit (24 rxn in 0,2ml clear tubes)
FLM01072	FLAME FAST Yersinia species qPCR detection Kit (24 rxn in 0,2ml clear tubes)
FLM01073	FLAME FAST Pseudomonas aeruginosa qPCR detection Kit (24 rxn in 0,2ml clear tubes)
FLM01113	FLAME FAST L. pneumophila qPCR detection Kit (24 rxn in 0,2ml clear tubes)
FLM01074	FLAME FAST Legionella species qPCR detection Kit (24 rxn in 0,2ml clear tubes)
FLM01075	FLAME FAST Campylobacter sp-Salmonella sp- Legionella sp qPCR detection Kit-24 rx(0,2 tubes)
FLM01076	FLAME FAST Legionella pn-Legionella sp-Pseudomonas aerug qPCR detection Kit-24 rxn(0,2 tubes)
FLB01014	FLAME Fast DNA Extraction kit from clear water (24 rxn)
FLB21009	FLAME Fast DNA Extraction kit from food (24 rxn)
FLB0270	FLAME BEADS UNIVERSAL DNA/RNA EXTRACTION Kit 96 test
FLB0271	FLAME BEADS UNIVERSAL DNA/RNA EXTRACTION Kit PreFilled Plate 96 test
FLB0273	FLAME BEADS UNIVERSAL DNA/RNA EXTRACTION Kit PreFilled Plate 64 test
FLB0010	FLAME BEADS Lysis Buffer 30 ml
FLB0011	FLAME BEADS Lysis Buffer 125 ml
FLB0268	FLAME BEADS Carrier 1 mg
FLB0269	FLAME BEADS Carrier Buffer 1.2 ml
FLB01009	FLAME Fast free DNA inactivator - 200 test
FLB02014	FLAME Fast DNA Extraction kit from dirty water (24 rxn)



MicroPad
MICROBIAL COUNT PLATE

Microbiology - the cause of 95% of food safety issues

Microorganisms are of great significance to foods for several reasons. The most significant one is that they can cause spoilage of foods and can also be applied to manufacture a wide variety of food products, as well as cause microbial diseases transmitted by foods. According to world food safety market research and statistics, 99.5% of the issues in food safety is caused by microbiology.

Detection, identification and enumeration of these foodborne microorganisms are of great importance. From general food hygiene to pathogens enumeration, it is necessary and urgent to make sure that the foods are safe for human consumption.

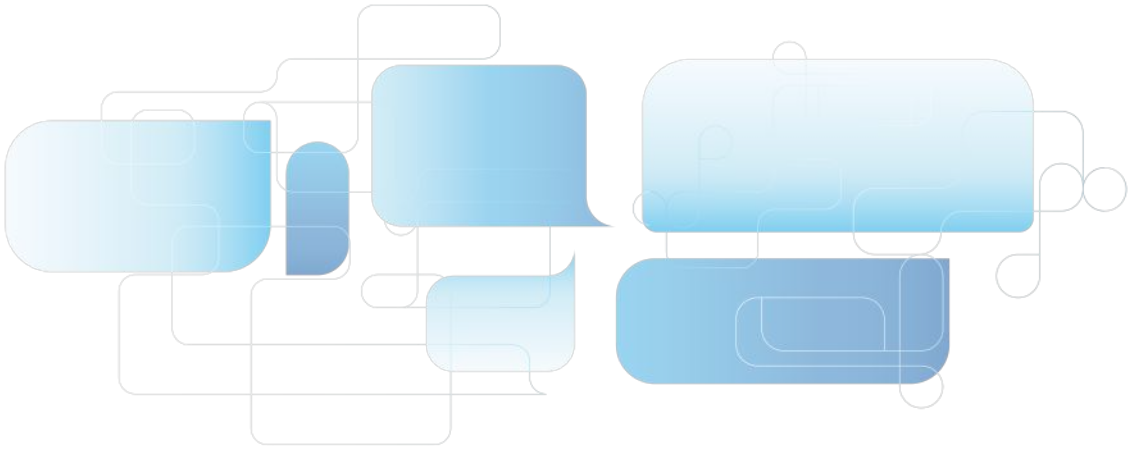
Foods can be considered as a medium for microbial growth. Considering the vast array of sources, substances, and methods with which food is produced, practically every kind of microbe is a potential contaminant.

Conventional detection of pathogenic bacteria is mainly based on cultivation procedures, which use enrichment broths followed by the isolation of colonies on selective media, biochemical identification and confirmation of pathogenicity.

This culture method is selective for the search of one type of pathogen at a time. Currently, both ISO and AOAC official methods are based on these principles.

Here at GVS, we have successfully developed many new microbiology count plate based on selective medium to enumerate the food microorganisms in various samples. In this leaflet, you will find the details and ordering information.

We guarantee you a rapid, sensitive, reliable, reproducible result.



Readily-Usable MicroPad Microbiology Enumeration Medium

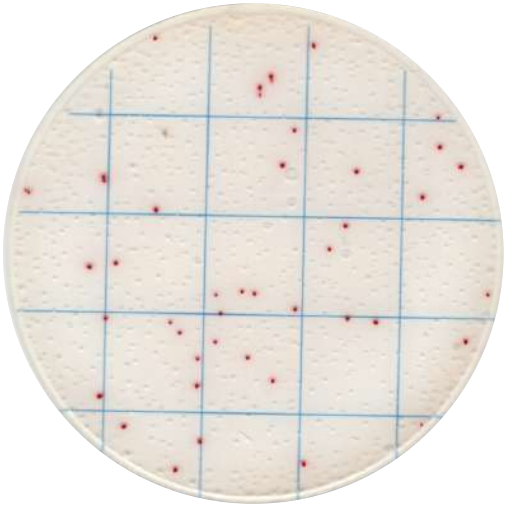
Less time & less labor work

ISO & AOAC standards compatible

No more culture medium preparation

No extra reagent required

1-24-C Easy Determination



1ml Sample Suspension

1ml of solid sample suspension or 1ml liquid sample in PBS, adjust the pH to neutral.

24h Incubation

Incubate at 36 oC for 22 - 24h.

Check the result

Enumerate the colonies according to the kit instruction manual. Further identification can be performed if necessary.

Ordering information

Product Code	Description	Result	Incubation
MCPG00125	Aerobic Count Plate	Red colony	36±1℃ ,48±2h
MCPG00225	Staph Count Plate	Dark purple red colony	36±1℃ ,24±2h
MCPG00325	Pivot E. coli / Coliform Count Plate	Blue purple colony	36±1℃ , 24±2h
MCPG00425	Pivot Coliform Count Plate	Green colony	36±1℃ ,24±2h
MCPG00525	Listeria Count Plate	Blue green colony	36±1℃ ,24±2h
MCPG00825	Yeast & Mould Count Plate	Green colony	28±1℃ ,48-2h
MCPG01025	Coliform Count Plate	Red colony	36±1℃ ,18-24h
MCPG01125	E.coli / Coliform Count Plate	Blue purple & red colony	36±1℃ ,18-24h

Readily-Usable MicroPad Microbiology Enumeration Medium

Less time & less labor work

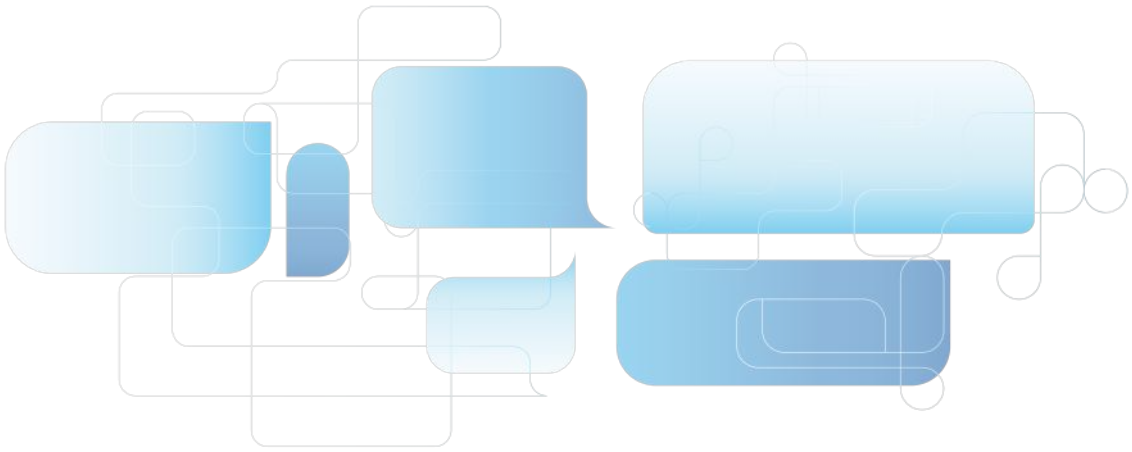
ISO & AOAC standards compatible

No more culture medium preparation

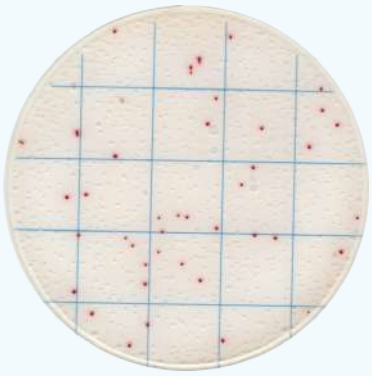
No extra reagent required

Ordering information

Product Code	Description	Result	Incubation
MCPG01325	Bacillus Cereus Count Plate	Purple red colony	36±1℃ , 48±2h
MCPG01425	Lactic Acid Bacteria Count Plate	Red colony	36±1℃ , 48±2h
MCPG01525	Salmonella Count Plate	Purple red colony	36±1℃ , 24±2h
MCPG01625	Enterobacteriaceae Count Plate	Red colony	36±1℃ , 18-24h
MCPG01725	Geobacillus s. Count Plate	Red colony	55±1℃ , 36±1h
MCPG01825	Enterococcus f. Count Plate	Black, black green colony	36±1℃ , 26±2h
MCPG01925	Bacillus Psychrophilus Count Plate	Red colony	21±1℃ , 48-60h
MCPG02425	Aerobic Bacillus Count Plate	Red colony	36 ±1℃ , 24±2h
MCPG02525	Shigella Count Plate	Red colony	36 ±1℃ , 24-48h
MCPG02625	Listeria m. Count Plate	Blue green colony	36±1℃ , 36h
MCPG02725	E.Coli O157 Count Plate	Gray colony with halo	36±1℃ , 18-24h
MCPG02825	Vibrio parahaemolyticus Count Plate	Red colony	36±1℃ ,8-18h
MCPG02925	Psychrophilic Bacteria Count Plate	Red colony	21±1℃ , 28-30h



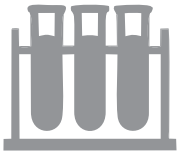
MicroPad Aerobic Count Plate



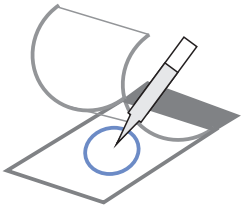
Product Code: MCPG00125 **25 plates / pack**

Aerobic Count Plate (ACP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of aerobic colonies after 48h – 72h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

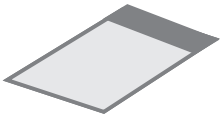
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



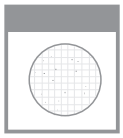
Sample Preparation



Sampling



Incubation

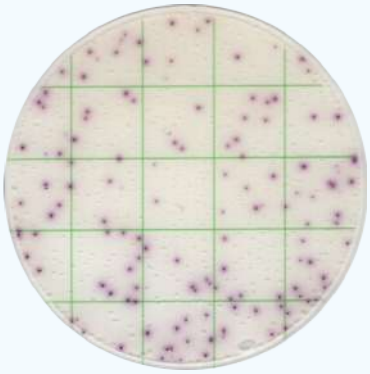


Enumeration

Aerobic Count Plate is applicable for the counting of as many as 65 aerobic bacteria. All will produce red colonies for counting, regardless of the size and clarity.

The following bacteria has been tested successfully with this count plate
ATCC 8099,CICC 10305,ATCC 25922,CICC 10003,CICC 10389,CICC 10907,CICC 21530,CICC 10667,CICC 24190,CICC 24186,CICC 24188,CICC 24187,ATCC 25955,ATCC 10031,ATCC 13883,ATCC 13048,ATCC 29544,ATCC 25931,ATCC 12022,CICC 10865,CICC 23829,CICC 21534,CICC 21535,ATCC 9207,ATCC 15947,ATCC 51114,ATCC 43864,ATCC 25405,GDMCC 1.163,ATCC 13311,CICC 21501,CICC 21495,CICC 21512,CICC 21501,ATCC 27511,ATCC 33291,ATCC 43478,CICC 10869,ATCC 19433,ATCC 19258,CICC 20247,ATCC 8014,CICC 6009,ATCC 6538,ATCC 25923,CICC 10384,ATCC 27217,ATCC 12228,CMCC 26069,CICC 21602,ATCC 8032,ATCC 33090,ATCC 19111,ATCC 35967,ATCC 19119,ATCC 35897,ATCC 25401,CICC 20483,CICC 21261,ATCC 11778,ATCC 6633,CICC 10071,etc.

MicroPad Staphylococcus aureus Count Plate

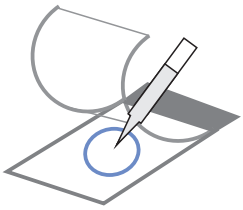


Product Code: MCPG00225 **25 plates / pack**

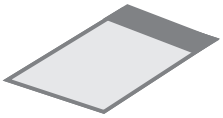
Staphylococcus aureus Count Plate is a sample-ready-culture medium system which contains readymade Baird-Parker medium, a cold-water-soluble gelling agent indicator and selective inhibitor. It can be used in direct counting of staphylococcus aureus colonies after 24h incubation. The result is consistent with ISO standards and commercial counting plates.

Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.

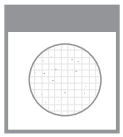
Sample Preparation



Sampling



Incubation

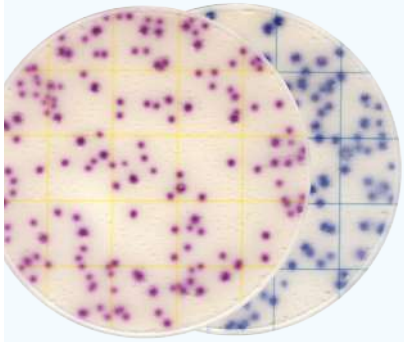


Enumeration

Incubate the plates at 36±1 oC for 24±2 hours.

For aquatic products, please incubate at 30±1 oC for 72±3 hours for. Up to 6 plates can be stacked in one incubation holder. On this Staphylococcus aureus count plate, Staphylococcus aureus is red colonies, other staphylococcus is light pink green or colorless colonies. Majority of gram-negative and other gram-positive bacterium cannot grow in this plate, or they can present as blue colonies.

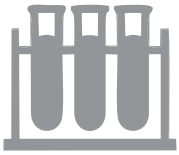
MicroPad Pivot E. coli/Coliform Count Plate



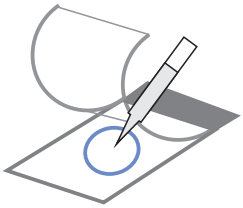
Product Code: MCPG00325 **25 plates / pack**

Pivot E. coli/Coliform Count Plate (ECCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of E. coli and Coliform colonies after 24h incubation.

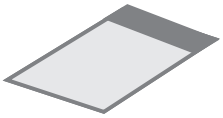
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



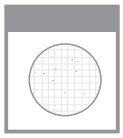
Sample Preparation



Sampling



Incubation

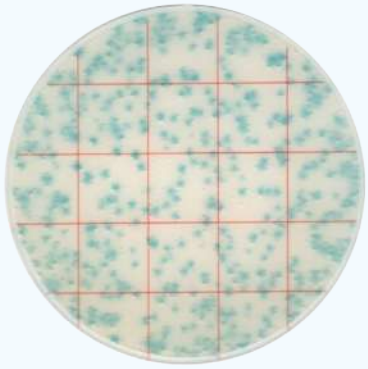


Enumeration

Incubate the plates at 36±1 oC for 24±2 hours. Up to 6 plates can be stacked in one incubation holder.

Counting of Coliform: Count colonies within 15-150 CFU. All red or blue colonies shall be counted regardless of the size or intensity.
Counting of E. coli: Count colonies within 10-100 CFU. All blue colonies shall be counted regardless of the size or intensity.

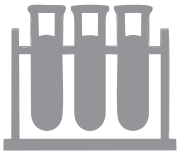
MicroPad Pivot Coliform Count Plate



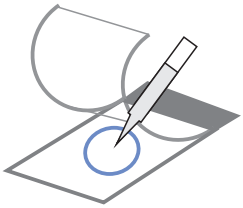
Product Code: MCPG00425 **25 plates / pack**

Pivot Coliform Count Plate (CCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of coliform colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

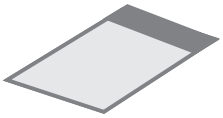
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



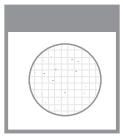
Sample Preparation



Sampling



Incubation

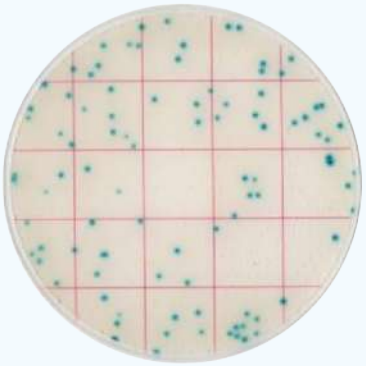


Enumeration

This Pivot Coliform Count Plate (CCP) can be used in the quantitative plating of Coliform Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All green colonies shall be counted regardless of the size or intensity.
Count colonies within 15-150 CFU, count all the green colonies.

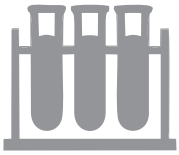
MicroPad Listeria Count Plate



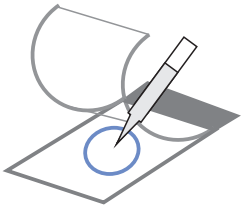
Product Code: MCPG00525 **25 plates / pack**

Aerobic Count Plate (ACP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of aerobic colonies after 48h – 72h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

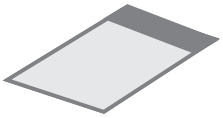
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



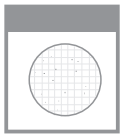
Sample Preparation



Sampling



Incubation

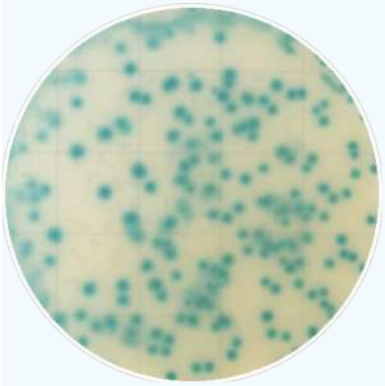


Enumeration

This Listeria Count Plate can be used in the quantitative plating of Listeria Colonies in the food, food material, water and production environment.

Quantitative counting of the plate can be done by a standard colony counter or by software. All green colonies shall be counted regardless of the size or intensity.
Count colonies within 30-200 CFU, count all the green colonies.

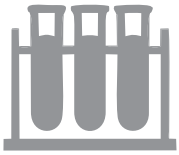
MicroPad Yeast & Mould Count Plate



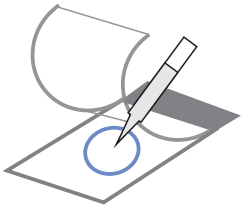
Product Code: MCPG00825 **25 plates / pack**

Yeast Mould Count Plate (YM) is a sample-ready-culture medium system which contains ready-made dry medium, somatomedin, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of yeast and mould colonies after 2-3 days' incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

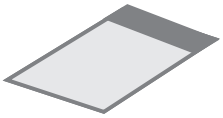
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



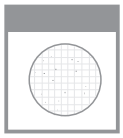
Sample Preparation



Sampling



Incubation

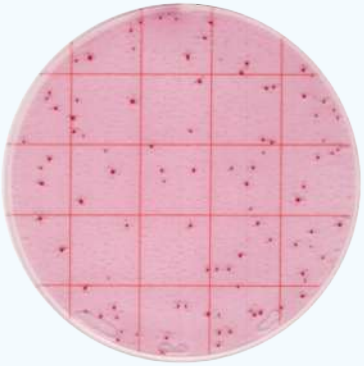


Enumeration

This Yeast Mould Count Plate can be used in the quantitative plating of yeast and mould colonies in the heat-processed product.

Quantitative counting of the plate can be done by a standard colony counter or by software. All green colonies shall be counted regardless of the size or intensity.
Count colonies within 10-150 CFU, count all the green colonies.

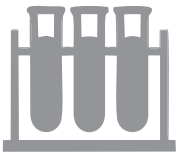
MicroPad Coliform Count Plate



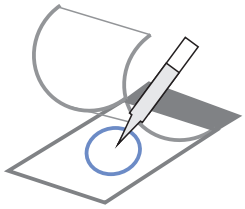
Product Code: MCPG01025 **25 plates / pack**

which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of coliform colonies after 18h – 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

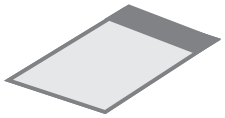
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



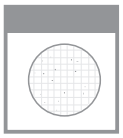
Sample Preparation



Sampling



Incubation

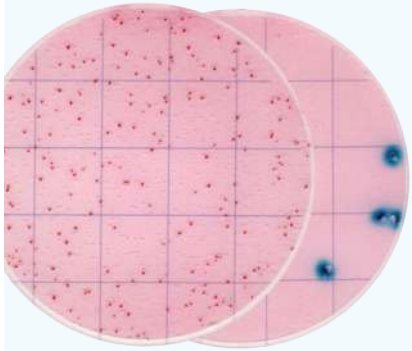


Enumeration

This Coliform Count Plate can be used in the quantitative plating of Coliform Colonies in the food and beverage industries. Incubate the plates at 36±1 oC for 18-24 hours. Up to 6 plates can be stacked in one incubation holder.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 15-150 CFU, count all the red colonies.

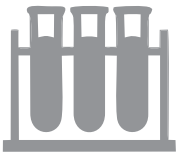
MicroPad E. coli/Coliform Count Plate



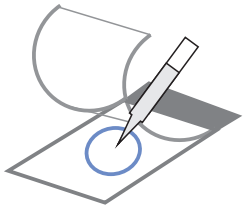
Product Code: MCPG01125 **25 plates / pack**

E. coli/Coliform Count Plate is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of E. coli/Coliform colonies after 18-24h incubation. The result is consistent with the ISO standards and other commercial plates.

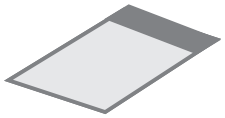
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



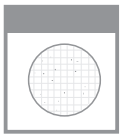
Sample Preparation



Sampling



Incubation

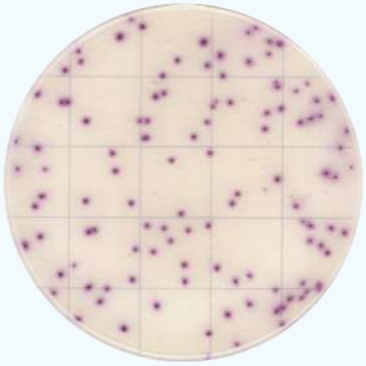


Enumeration

This E. coli/Coliform Count Plate can be used in the quantitative plating of E. oli/Coliform Colonies in the food and beverage industries.

Coliform can grow in this plate, Escherichia Coli are blue colonies associated with gas bubble, Klebsiella pneumonia and enterobacter cloacae are red colonies associated with gas bubble, Citrobacter are red colonies without gas bubble. Other gram-negative bacterium (Salmonella, Shigella) can grow in this plate, their colonies are red without gas bubble. Enterobacter Sakazakii can grow in this plate, its colonies are red associated with gas bubble.

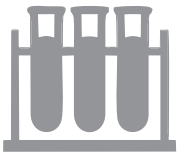
MicroPad Bacillus cereus Count Plate



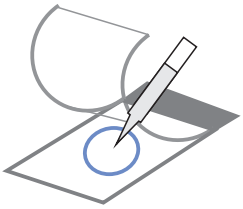
Product Code: MCPG01325 **25 plates / pack**

Bacillus cereus Count Plate (BCCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Bacillus cereus colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

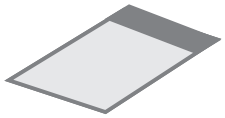
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



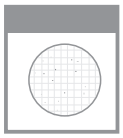
Sample Preparation



Sampling



Incubation

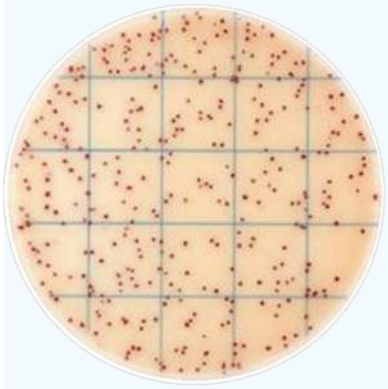


Enumeration

This Bacillus cereus Count Plate (BCCP) can be used in the quantitative plating of Bacillus cereus Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All purple red colonies shall be counted regardless of the size or intensity.
Count colonies within 20-200 CFU, count all the purple red colonies.

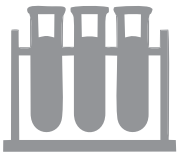
MicroPad Lactic Acid Bacteria Count Plate



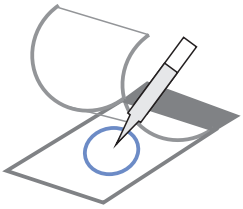
Product Code: MCPG01425 **25 plates / pack**

Lactic Acid Bacteria Count Plate (LABP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Salmonella colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

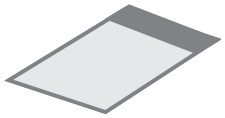
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



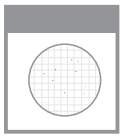
Sample Preparation



Sampling



Incubation

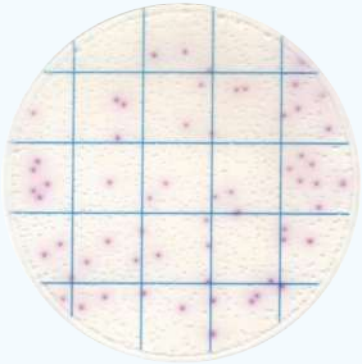


Enumeration

This Lactic Acid Bacteria Count Plate (LABP) can be used in the quantitative plating of Lactic Acid Bacteria Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 30-300 CFU, count all the red colonies.

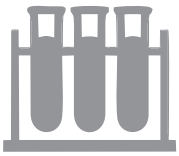
MicroPad Salmonella Count Plate



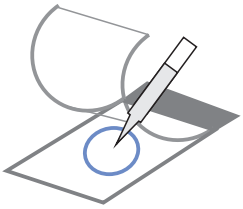
Product Code: MCPG01525 **25 plates / pack**

Salmonella Count Plate (SCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Salmonella colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

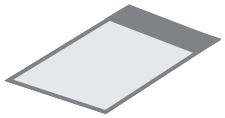
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



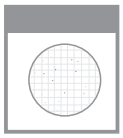
Sample Preparation



Sampling



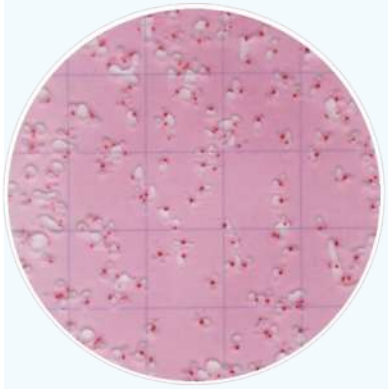
Incubation



Enumeration

This Salmonella Count Plate (SCP) can be used in the quantitative plating of Salmonella Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.
Quantitative counting of the plate can be done by a standard colony counter or by software. All purple red colonies shall be counted regardless of the size or intensity.
Count colonies within 30-200 CFU, count all the purple red colonies.

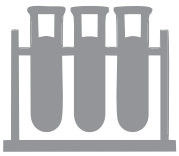
MicroPad Enterobacteriaceae Count Plate



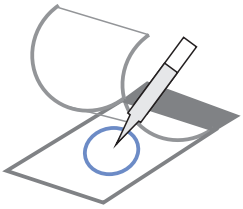
Product Code: MCPG01625 **25 plates / pack**

Enterobacteriaceae Count Plate (EBCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Enterobacteriaceae colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial plates.

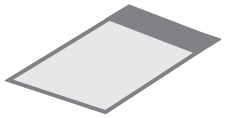
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



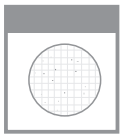
Sample Preparation



Sampling



Incubation



Enumeration

This Enterobacteriaceae Count Plate (EBCP) can be used in the quantitative plating of Enterobacteriaceae Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

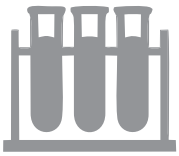
Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 15-150 CFU, count all the red colonies.

MicroPad Geobacillus stearothermophilus Count Plate

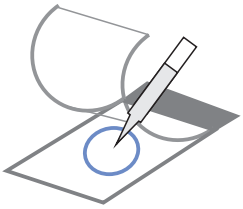
Product Code: MCPG01725 **25 plates / pack**

Geobacillus stearothermophilus Count Plate (GSCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Geobacillus stearothermophilus colonies after 36h incubation. The result is consistent with the corresponding ISO standards.

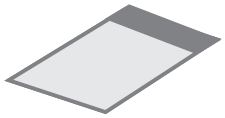
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



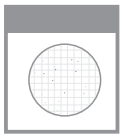
Sample Preparation



Sampling



Incubation

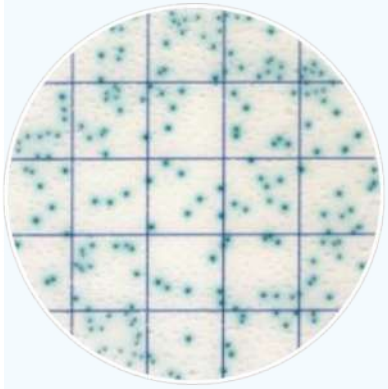


Enumeration

This Geobacillus stearothermophilus Count Plate (GSCP) can be used in the quantitative plating of Geobacillus stearothermophilus Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 10-150 CFU, count all the red colonies.

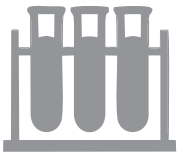
MicroPad Enterococcus faecalis Count Plate



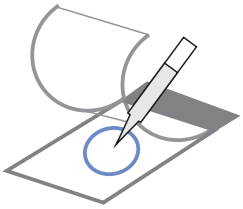
Product Code: MCPG01825 **25 plates / pack**

Enterococcus faecalis Count Plate (EFCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Enterococcus faecalis colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial plates.

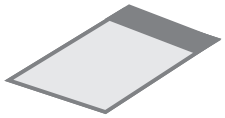
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



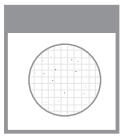
Sample Preparation



Sampling



Incubation

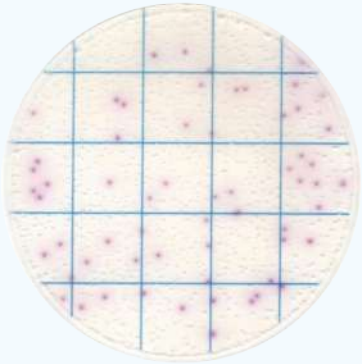


Enumeration

This Enterococcus faecalis Count Plate (SCP) can be used in the quantitative plating of Enterococcus faecalis Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All purple red colonies shall be counted regardless of the size or intensity.
Count colonies within 20-100 CFU, count all the dark colonies with blue halo.

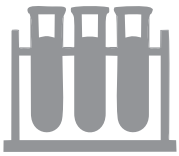
MicroPad Bacillus Psychrophilus Count Plate



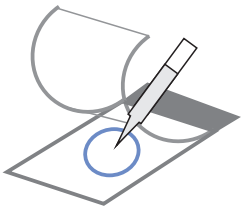
Product Code: MCPG01925 **25 plates / pack**

Bacillus Psychrophilus Count Plate (BPCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of bacillus psychrophilus colonies after 48-60h incubation. The result is consistent with the corresponding ISO standards and other commercial plates.

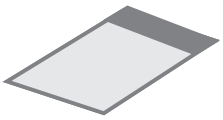
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



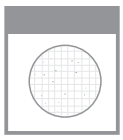
Sample Preparation



Sampling



Incubation

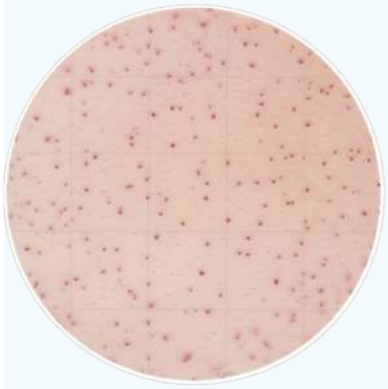


Enumeration

This Bacillus Psychrophilus Count Plate (BPCP) can be used in the quantitative plating of Bacillus Psychrophilus Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 10-150 CFU, count all the red colonies.

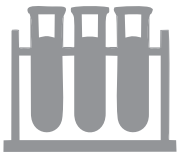
MicroPad Aerobic Bacillus Count Plate



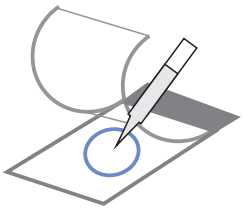
Product Code: MCPG02425 **25 plates / pack**

Aerobic Bacillus Count Plate (ABCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of aerobic bacillus colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

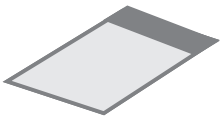
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



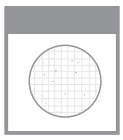
Sample Preparation



Sampling



Incubation

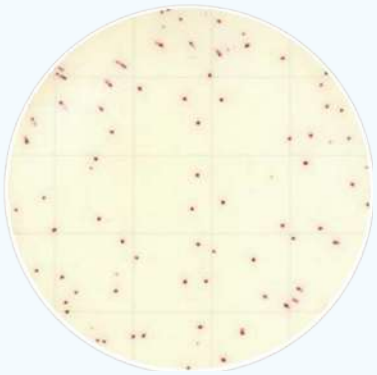


Enumeration

This Aerobic Bacillus Count Plate (ABCP) can be used in the quantitative plating of Aerobic Bacillus Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 10-150 CFU, count all the purple red colonies.

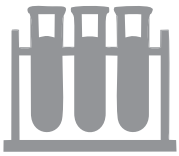
MicroPad Shigella Count Plate



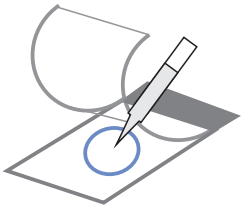
Product Code: MCPG02525 **25 plates / pack**

Shigella Count Plate (SHCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Shigella colonies after 24-48h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

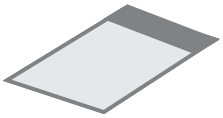
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



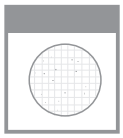
Sample Preparation



Sampling



Incubation

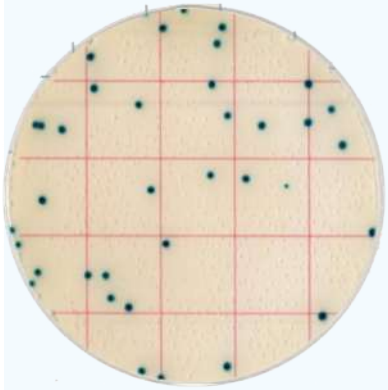


Enumeration

This Shigella Count Plate (SHCP) can be used in the quantitative plating of Salmonella Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count all the red colonies.

MicroPad Listeria M. Count Plate

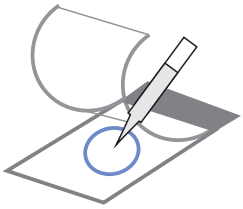


Product Code: MCPG02625 **25 plates / pack**

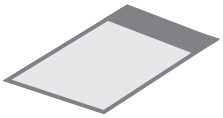
Listeria M. Count Plate (LMCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of listeria monocytogenes colonies after 36h incubation. The result is consistent with the corresponding ISO standards and other commercial plates.

Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.

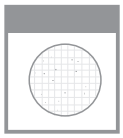
Sample Preparation



Sampling



Incubation

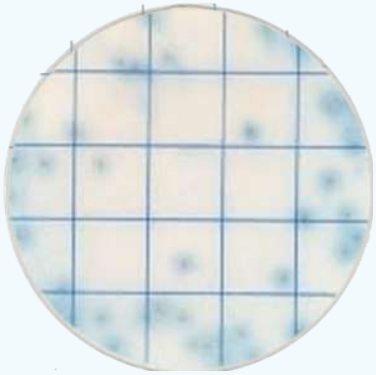


Enumeration

This Listeria M. Count Plate (LMCP) can be used in the quantitative plating of Listeria Monocytogenes Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All blue green colonies shall be counted regardless of the size or intensity.
Enrichment is needed before testing with this count plate.

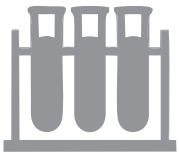
MicroPad E.Coli O157 Count Plate



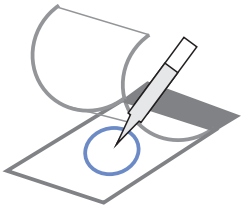
Product Code: MCPG02725 **25 plates / pack**

E. Coli O157 Count Plate (ECOCP) is a sample-ready-culture medium system which contains ready made dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of E. Coli O157 colonies after 24h incubation. The result is consistent with the corresponding ISO standards and other commercial counting plates.

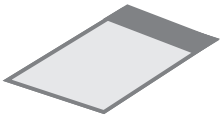
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



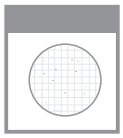
Sample Preparation



Sampling



Incubation

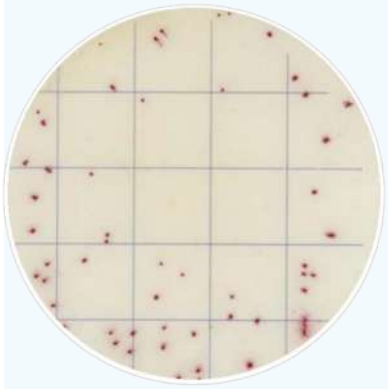


Enumeration

This E. Coli O157 Count Plate (ECOCP) can be used in the quantitative plating of E. Coli O157 Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. E.Coli O157 colonies are gray with dark-blue halo, higher concentration of colonies may lead to dark background. Please further dilute the sample for enumeration. Count the gray colonies with dark-blue halo.

MicroPad Vibrio parahaemolyticus Count Plate

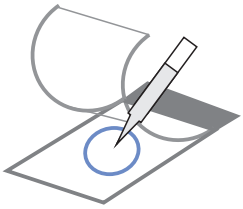


Product Code: MCPG02825 **25 plates / pack**

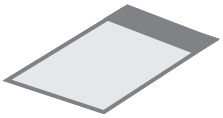
Vibrio Parahaemolyticus Count Plate (VPCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Vibrio Parahaemolyticus colonies after 8-18h incubation. The result is consistent with the corresponding ISO standards and other commercial plates.

Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.

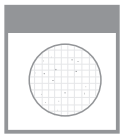
Sample Preparation



Sampling



Incubation

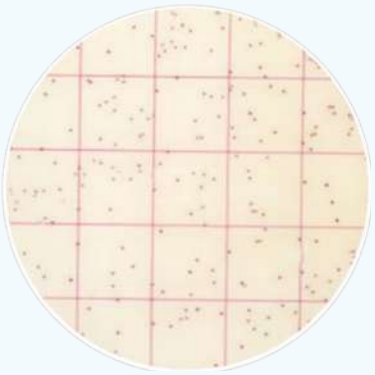


Enumeration

This Vibrio Parahaemolyticus Count Plate (VPCP) can be used in the quantitative plating of Vibrio Parahaemolyticus Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count all the red colonies.

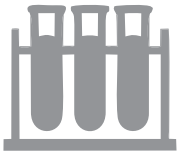
MicroPad Psychrophilic Bacteria Count Plate



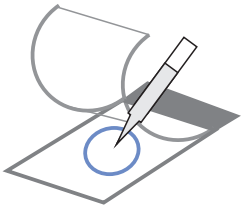
Product Code: MCPG02925 **25 plates / pack**

Psychrophilic Bacteria Count Plate (PBCP) is a sample-ready-culture medium system which contains readymade dry medium, a cold-water-soluble gelling agent and indicator. It can be used in direct counting of Psychrophilic Bacteria colonies after 28-30h incubation. The result is consistent with the corresponding ISO standards and other commercial plates.

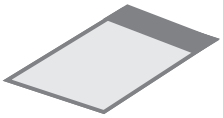
Read the user manual carefully before test, and follow the instructions.
Failure to do so may lead to inaccurate results.



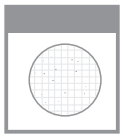
Sample Preparation



Sampling



Incubation



Enumeration

This Psychrophilic Bacteria Count Plate (PBCP) can be used in the quantitative plating of Psychrophilic Bacteria Colonies in the food and beverage industries. Other applications are available upon request. Contact your supplier for more details.

Quantitative counting of the plate can be done by a standard colony counter or by software. All red colonies shall be counted regardless of the size or intensity.
Count colonies within 10-300 CFU, count all the red colonies.

MilkKit
Milk Rapid Test Kit

MilkKit Milk Rapid Test Kit

World-class quality at affordable cost

MilkKit tests can be used to monitor antibiotic residues and mycotoxins, melamines, etc in milk and various food samples.

Current Offer in Dairy Industry

Veterianry Drug Residue Rapid Test Kit

Major veterinary antibiotics, steroids, hormones, disinfectants, detergent, etc.

Pesticide Residue Rapid Test Kit

Important pesticides, herbicides, etc.

Mycotoxin Rapid Test Kit

for aflatoxin M1 testing, ranging from EU MRL, USA MRL to Codex MRL, 0.5ppb, 0.05ppb, 0.3ppb, 0.4ppb, etc.

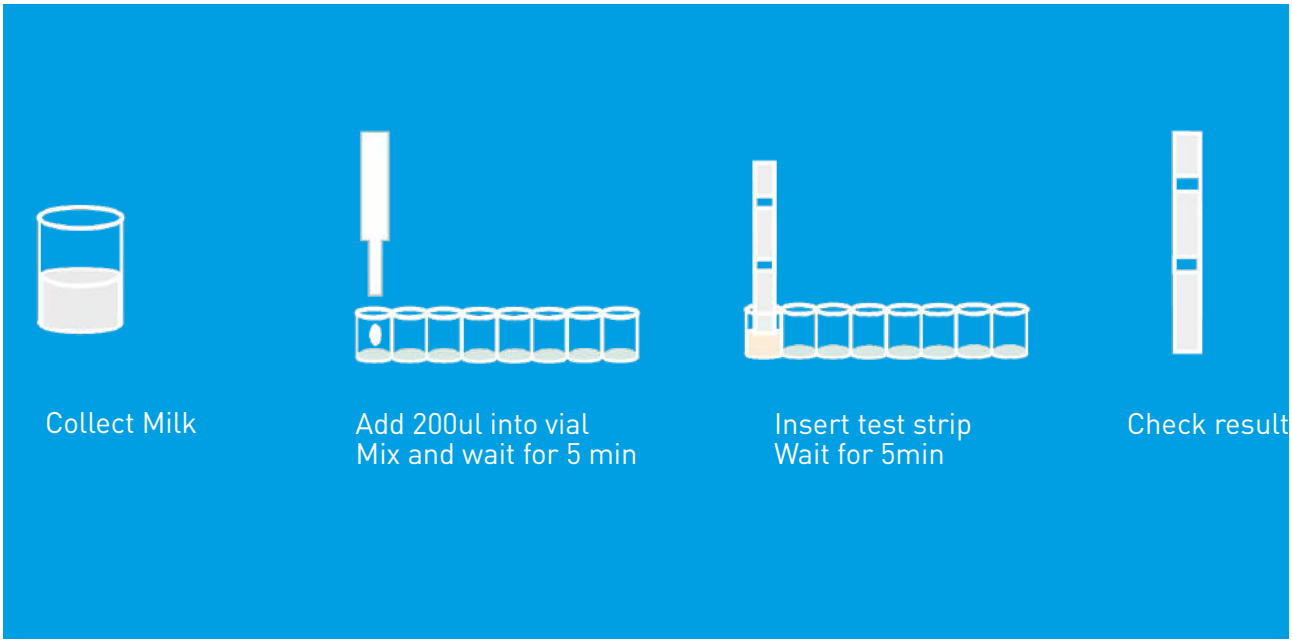
Milk Nutrition & Milk fraud Rapid Test Kit

for testing of bovine lgG, bovine lactoferrin, vitamin, as well as testing cow milk added into goat or camel milk, etc.

Test Equipment for Milk Tests

from portable reader system to desktop reader system to ensure the visualize of test data and printing.

General Step for milk testing



ß-lactams & tetracyclines, BT Combo Test Kit

A lateral flow rapid test kit based on receptor assay to detect multiple ß-lactams & tetracyclines antibiotics in 10min.

Ordering information

Product Code	Reaction Mode	Detection Level
TESTMIRA2002A	5'+5', room temp.	EU MRL

ß-lactams & tetracyclines & sulfa drugs, BTS TriTest 3in1

A lateral flow rapid test kit based on receptor assay to detect multiple ß-lactams & tetracyclines & sulfa antibiotics in 6min.

Ordering information

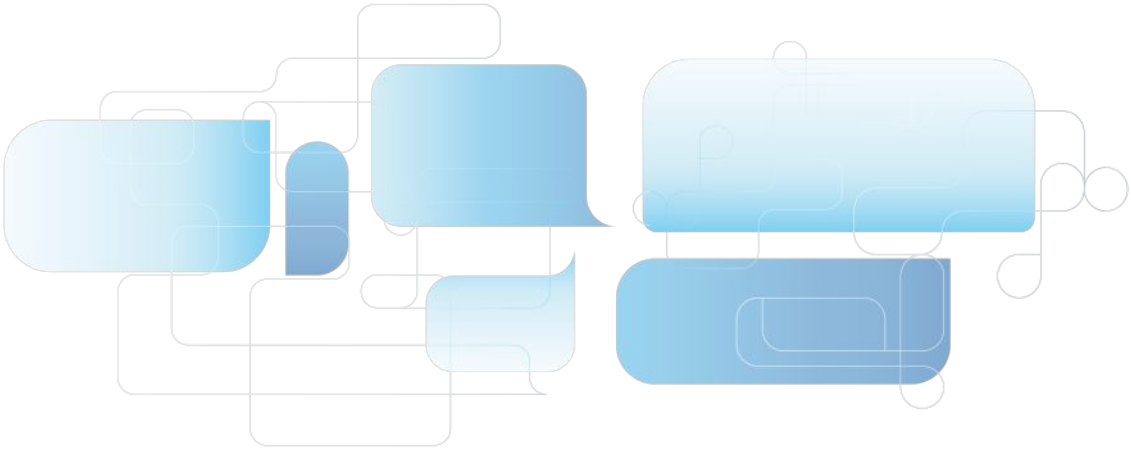
Product Code	Reaction Mode	Detection Level
TESTMIRA0015A	3'+3', room temp.	EU MRL

Kit Component

- A12 tubes of rapid tests, 8 strips per tube
- Microwell holder
- Plastic pipette or micropipette tips
- Kit instruction

Samples

- Raw milk, UHT milk, pasteurized milk, etc.
- Water, meat, egg, honey, etc.



ß-lactams & tetracyclines & sulfa & quinolones, BTSQ QuaTest 4in1

A lateral flow rapid test kit based on receptor assay to detect multiple ß-lactams & tetracyclines & sulfa antibiotics in 6min.

Ordering information

Product Code	Reaction Mode	Detection Level
TESTMIRA0029A	3'+7', room temp.	EU MRL

ß-lactams & tetracyclines & streptomycin & CAP, BTSC QuaTest 4in1

A lateral flow rapid test kit based on receptor assay to detect multiple beta-lactams, tetracyclines, streptomycin & chloramphenicol antibiotics in 10min.

Ordering information

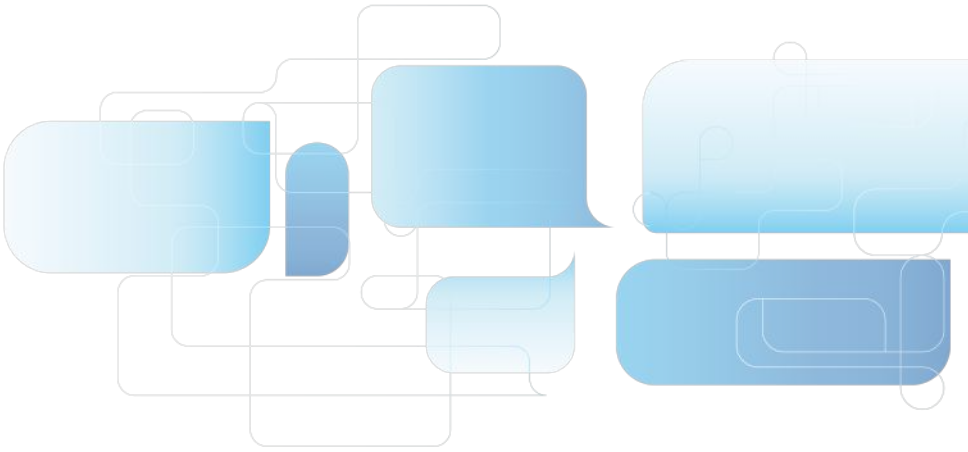
Product Code	Reaction Mode	Detection Level
TESTMIRA0018A	3'+7', room temp.	EU MRL

Kit Component

- 12 tubes of rapid tests, 8 strips per tube
- Microwell holder
- Plastic pipette or micropipette tips
- Kit instruction

Samples

- Raw milk, UHT milk, pasteurized milk, etc.
- Water, meat, egg, honey, etc.



Aminoglycosides, GNKS QuaTest 4in1

A lateral flow rapid test kit based on receptor assay to detect multiple gentamicin, neomycin, kanamycin & streptomycin antibiotics in 10min.

Ordering information

Product Code	Reaction Mode	Detection Level
TESTMIRA0025A	3'+7', room temp.	EU MRL

Quinolones, macrolides, lincomycin, erythromycin, QMLE QuaTest 4in1

A lateral flow rapid test kit based on receptor assay to detect multiple quinolones, macrolides, lincomycin, erythromycinantibiotics in 10min.

Ordering information

Product Code	Reaction Mode	Detection Level
TESTMIRA0024A	3'+7', room temp.	EU MRL

Kit Component

- 12 tubes of rapid tests, 8 strips per tube
- Microwell holder
- Plastic pipette or micropipette tips
- Kit instruction

Samples

- Raw milk, UHT milk, pasteurized milk, etc.
- Water, meat, egg, honey, etc.

Test Equipment and Devices

Ordering information

Product Code	Product Description
TESTINR1303A	Reader Fast 2 system - the quick and smaller model
TESTINR1304A	Minipipet for test kit, 200ul
TESTINR1305A	Mini Incubator - heating block for rapid tests
TESTINR1307A	ATP fluorescence detector - ATP Reader

Q3 system Desktop Rapid Test Reader

Ordering information: TESTINR1301A

Weight	3.0kg
Dimension	320mm x 195mm x 156mm
Wavelength	525±30nm
Precision	C.V. ≤3%
Display	6.2Inch LCD
Printer	Built-in thermal printer
Memory	4GB built-in/flash drive

Fast 2 system Desktop Rapid Test Reader

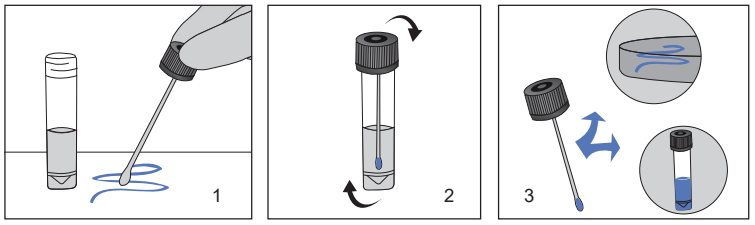
Weight	1.0kg
Dimension	210mm x 175mm x 75mm
Wavelength	525±30nm
Precision	C.V. ≤2%
Display	3.5Inch LCD
Printer	Built-in thermal printer
Memory	50000 entries

Environmental Surface Collection

Effective sampling of surfaces requires moisture, either already present on the surface to be sampled or via moistened swabs, sponges, wipes, agar surfaces, or membrane filters. GVS providesdilution fluids and rinse fluids include various buffers or general-purpose broth media, for environmental sampling applied in the food, pharmaceutical, biotechnology and cosmetic industries.

Available in 10mL fill volumes, with high-quality foam swab. The swab can be securely attached to the cap and makes a convenient "handle" for great control when sampling.

Convenient Use



1.Pre-moistening the tip of swab withbroth and then collecting sample by rubbing.
2.Returning the swab head to the broth after swabbing each area.
3.Shaking the tube vigorously, then plating the sample into the appropriate media and culturing for analysis.

Note: This product is For Laboratory Use only. It is not intended for use in the diagnosis of disease or other conditions.
Packing: 50tubes/rack/inner box, 8x50tubes/case

Neutralizing solution

Neutralizing solution is recommended for detection of microorganisms found on dairy and food equipment disinfected with chlorine or quaternary ammonium compounds.The medium usually contains lecithin, polysorbate 80, and sodium thiosulphate, which is used for neutralizing antibacterial or anti-microbial cleansing agents on surfaces in order to paint a clear picture of any bacteria present.

Neutralizing Solution (PBS)

Product Code	Tube	VOL.	Swab
ESCKC2118X1601A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1651A	10ml	10ml	1 regular foam swab attached cap in tube

Neutralizing Solution (Saline Solution)

Product Code	Tube	VOL.	Swab
ESCKC2118X1602A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1652A	10ml	10ml	1 regular foam swab attached cap in tube

Buffered Peptone Water

Buffered Peptone Water is a pre-enriched nonselective buffered solution. It allows for the repair of damaged cells and facilitates the recovery of target bacteria in samples for detection of salmonella in food and dairy plants.

Product Code	Tube	VOL.	Swab
ESCKC2118X1603A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1653A	10ml	10ml	1 regular foam swab attached cap in tube

Letheen Broth

Letheen Broth is recommended for use in qualitative procedures for testing quaternary ammonium compounds for antimicrobial activity. It is a growth medium supplied with neutralizing reagent, such as Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene, and formalin.

Product Code	TUBE	VOL.	SWAB
ESCKC2118X1604A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1654A	10ml	10ml	1 regular foam swab attached cap in tube

Butterield's Solution

Butterfield's Solution is a liquid medium recommended for use in qualitative procedure as a diluent in microbial limit testing of pharmaceutical products and in food testing. It was developed to provide a standardized medium for the preparation of sample dilutions, which eliminates the variations in pH associated with the use of distilled water.

Product Code	Tube	VOL.	Swab
ESCKC2118X1605A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1655A	10ml	10ml	1 regular foam swab attached cap in tube

D/E Neutralizing Broth

D/E Neutralizing Broth is a liquid medium recommended for use in qualitative procedures for environmental sampling where neutralization of the chemical is important to determine its bactericidal or bacteriostatic activity. This medium will neutralize a broad spectrum of antiseptic and disinfectant chemicals, including mercurial, iodine and chlorine preparations, quaternary ammonium compounds, phenolics, formaldehyde and glutaraldehyde. Growth is indicated by a color change from purple to yellow, and / or cloudiness.

Product Code	Tube	VOL.	Swab
ESCKC2118X1606A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1656A	10ml	10ml	1 regular foam swab attached cap in tube

Neutralizing Buffered Peptone Water

Neutralizing Buffered Peptone Water is recommended for use in the recovery of injured Salmonella species from industrial samples prior to selective enrichment and isolation, such as poultry rinses and food samples. It contains neutralizing agents to reduce the inhibitory effects of carryover from antimicrobial interventions.

Product Code	Tube	VOL.	Swab
ESCKC2118X1607A	10ml	10ml	1 separate regular foam swab
ESCKC2118X1657A	10ml	10ml	1 regular foam swab attached cap in tube

Petri Dishes, Plastic Material

- Non-cytotoxic virgin polystyrene, excellent optical clarity
- Engineered for optimum flatness to provide uniform agar thickness
- Single or more vents are available: no-vent for anaerobic and long-term work, single vent for limiting gas exchange, multi vents for improving gas exchange

General petri Dishes

90 and 150mm Petri dishes are manufactured in accordance with standard ISO 24998:2008, ideal for use with most automatic filling machine.

Product Code	Description	Quantity
PETRIDPC035151NVS	Ø 35×15 mm, 1 Room	10 pcs / polybag, 300 pcs / carton
PETRIDPC049131NVS	Ø 49 ×13 mm, 1 Room	10 pcs / polybag, 1,000 pcs / carton
PETRIDPC055151NVS	Ø 55×15 mm, 1 Room	10 pcs / polybag, 1,000 pcs / carton
PETRIDPC0601613VA	Ø 60×16mm, 1 Room / 3 vents	10 pcs / polybag, 1,200 pcs / carton
PETRIDPC070151NVS	Ø 70 × 15 mm, 1 Room	20 pcs / polybag, 800 pcs / carton
PETRIDPC0901613VA	Ø 90 × 16 mm, 1 Room / 3 vents	10 pcs / polybag, 500 pcs / carton
PETRIDPC1501513VS	Ø 150 × 15 mm, 1 Room / 3 vents	10 pcs / polybag, 200 pcs / carton

Compartmented Dishes

Ideal for different media on same dish,or meet the requirement of saving incubator space.

Product Code	Description	Quantity
PETRIDPC0901523VS	Ø 90 × 15mm, 2 Rooms / 3 vents	10 pcs / polybag, 500 pcs / carton
PETRIDPC0901533VS	Ø 90 × 15mm, 3 Rooms / 3 vents	10 pcs / polybag, 500 pcs / carton

Square Dishes

Noncompartmented, ideal for antibiotic sensitivity testing.

Product Code	Description	Quantity
PETRIDPS130151NVS	Ø 130 × 130 × 15 mm, 1 Room	10 pcs / polybag, 150 pcs / carton

Contact Plates

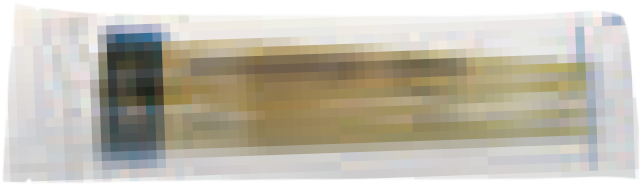
10×10mm counting net, alphanumeric, facilitates colony counting and locating.

Product Code	Description	Quantity
PETRIDPC0651513VS	Ø 65 × 15 mm, 1 Room / 3 vents	10 pcs / polybag, 1,000 pcs / carton

Plastic Loops STERILE R

Disposables for collection and inoculation by streaking or puncturing method

- Smooth surface, guarantee the even and fluent streaking
- Color-coded sizes for easy identification
- Polygonal shaft is easy to grasp, operate and control it's direction
- Rigid and flexible loops available upon requests
- Supplied with Individual peel pack (easy peel-open) and Zip-lock pack (tamperproof and re-sealable), eliminates the risk of contamination



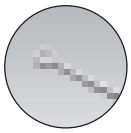
ZIP-LOCK-PACK

Hexagonal shaft with stripes

Packing:
Type A:20pcs/zip-lock pack, 1,000pcs/dispenser box, 10,000pcs/carton
Type B:10pcs/zip-lock pack, 1,000pcs/dispenser box, 10,000pcs/carton
Type C:5pcs/zip-lock pack, 500pcs/dispenser box, 5,000pcs/carton
Type D:individual peel pack,500pcs/dispenser box, 5,000pcs/carton

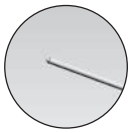
Rigid Loops

PS material, hexagonal shaft with stripes, ideal for collection of single colony and inoculation by puncturing



1μL Loop

10μL Loop



Needle

Color: Neutral

Product Code	Packing
CELCUCG2121X1001S	Type A
CELCUCG2121X1002S	Type B
CELCUCG2121X1003S	Type C
CELCUCG2121X1004S	Type D

Color: Blue

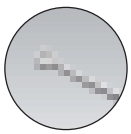
Product Code	Packing
CELCUCG2121X1005S	Type A
CELCUCG2121X1006S	Type B
CELCUCG2121X1007S	Type C
CELCUCG2121X1008S	Type D

Color: Violet

Product Code	Packing
CELCUCG2121X1009S	Type A
CELCUCG2121X1010S	Type B
CELCUCG2121X1011S	Type C
CELCUCG2121X1012S	Type D

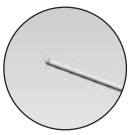
Flexible Loops

HIPS material, hexagonal shaft with stripes, ideal for inoculation in gel surface by streaking



1μL Loop

10μL Loop



Needle

Color: White

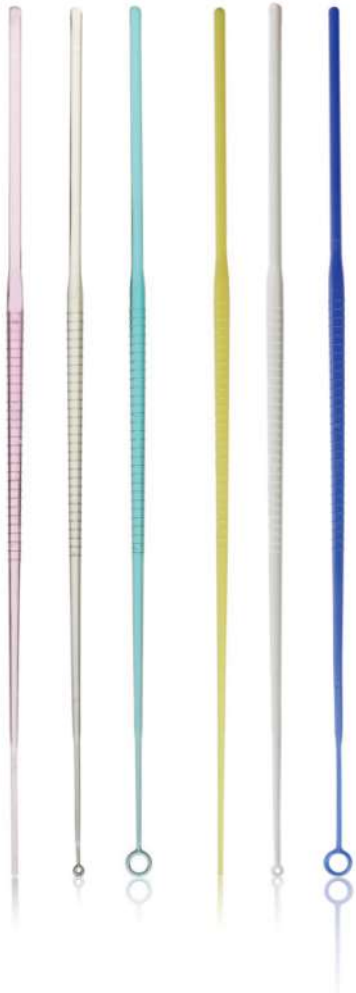
Product Code	Packing
CELCUCG2121X2001S	Type A
CELCUCG2121X2002S	Type B
CELCUCG2121X2003S	Type C
CELCUCG2121X2004S	Type D

Color: Dark blue

Product Code	Packing
CELCUCG2121X2005S	Type A
CELCUCG2121X2006S	Type B
CELCUCG2121X2007S	Type C
CELCUCG2121X2008S	Type D

Color: Yellow

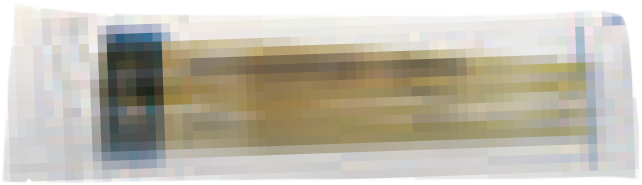
Product Code	Packing
CELCUCG2121X2009S	Type A
CELCUCG2121X2010S	Type B
CELCUCG2121X2011S	Type C
CELCUCG2121X2012S	Type D



Plastic Loops STERILE R

Disposables for collection and inoculation by streaking or puncturing method

- Smooth surface, guarantee the even and fluent streaking
- Color-coded sizes for easy identification
- Polygonal shaft is easy to grasp, operate and control it's direction
- Rigid and flexible loops available upon requests
- Supplied with Individual peel pack (easy peel-open) and Zip-lock pack (tamperproof and re-sealable), eliminates the risk of contamination



ZIP-LOCK-PACK

Hexagonal shaft with stripes

Packing:
Type A:20pcs/zip-lock pack, 1,000pcs/dispenser box, 10,000pcs/carton
Type B:10pcs/zip-lock pack, 1,000pcs/dispenser box, 10,000pcs/carton
Type C:5pcs/zip-lock pack, 500pcs/dispenser box, 5,000pcs/carton Type D:individual peel pack,500pcs/dispenser box, 5,000pcs/carton

Rigid Loops

AS material, hexagonal shaft with stripes, ideal for collection single colony and inoculation by puncturing

1μL Loop+ Incorporated needle

10μL+1μL Loop

10μL Loop+ Incorporated needle

Color: Neutral

Product Code	Packing
CELCUCG2121X0041S	Type A
CELCUCG2121X0042S	Type B
CELCUCG2121X0043S	Type C
CELCUCG2121X0044S	Type D

Color: Yellow

Product Code	Packing
CELCUCG2121X0049S17	Type A
CELCUCG2121X0050S17	Type B
CELCUCG2121X0051S17	Type C
CELCUCG2121X0052S17	Type D

Color: Blue

Product Code	Packing
CELCUCG2121X0045S02	Type A
CELCUCG2121X0046S02	Type B
CELCUCG2121X0047S02	Type C
CELCUCG2121X0048S02	Type D

Flexible Loops

ABS material, quadrangled shaft with stripes, ideal for collection single colony and inoculation by puncturing

1μL Loop+ Incorporated needle

10μL+1μL Loop

10μL Loop+ Incorporated needle

Color: Neutral

Product Code	Packing
CELCUCG2121X0053S	Type A
CELCUCG2121X0054S	Type B
CELCUCG2121X0055S	Type C
CELCUCG2121X0056S	Type D

Color: Yellow

Product Code	Packing
CELCUCG2121X0061S17	Type A
CELCUCG2121X0062S17	Type B
CELCUCG2121X0063S17	Type C
CELCUCG2121X0064S17	Type D

Color: Blue

Product Code	Packing
CELCUCG2121X0057S02	Type A
CELCUCG2121X0058S02	Type B
CELCUCG2121X0059S02	Type C
CELCUCG2121X0060S02	Type D

Cell Spreaders

Designed for spreading and dispersing liquids onto the surface of an agar plate Made of PP material, autoclavable, Supplied with triangle shaped and T shaped

PACKING:

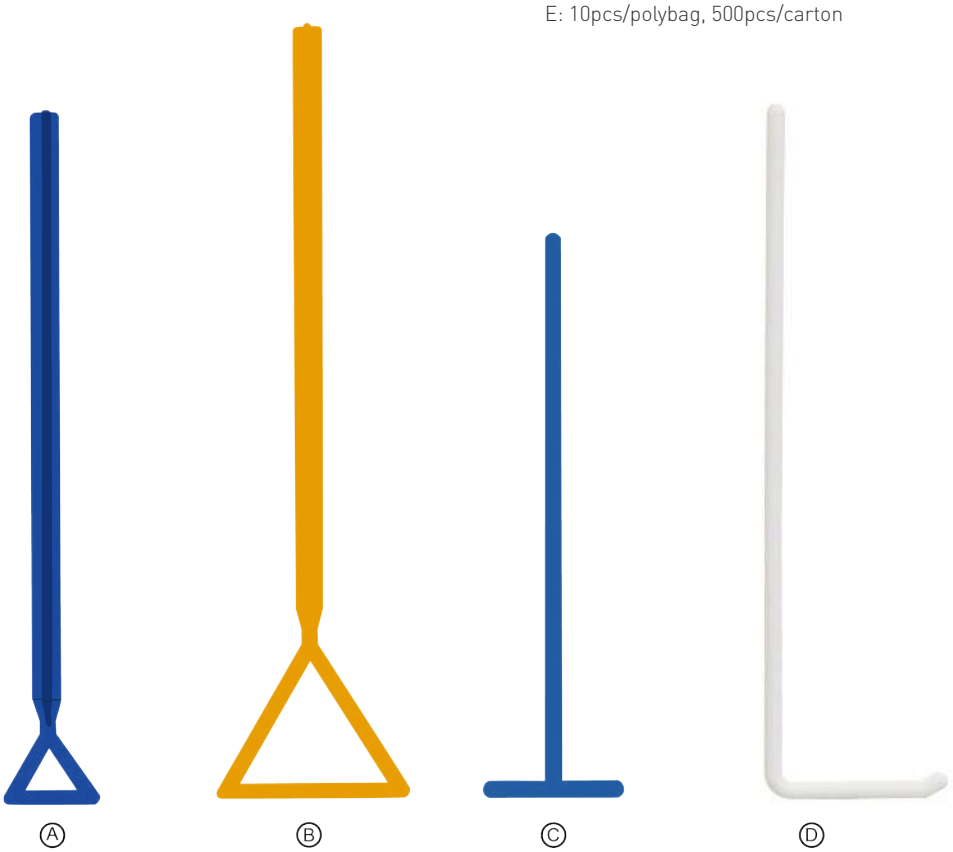
A: Individual Peel Pack, 100pcs/dispenser box,1,000pcs/carton

B: 10pcs/polybag, 1000pcs/carton

C: 10pcs/polybag, 400pcs/carton

D: Individual Peel Pack, 400pcs/dispenser box, 4,000pcs/carton

E: 10pcs/polybag, 500pcs/carton



A 215x30mm

Product Code	Sterile	Color	Packing
CELCUCG2400X0001X02A	Gamma	Blue	Type A
CELCUCG2400X0002X02A	-	Blue	Type B

B 240x60mm

Product Code	Sterile	Color	Packing
CELCUCG2400X0003X17A	Gamma	Yellow	Type A
CELCUCG2400X0004X17A	-	Yellow	Type B

C T Shape, 140x35mm

Product Code	Sterile	Color	Packing
CELCUCG2400X0005X02A	Gamma	Blue	Type D
CELCUCG2400X0006X02A	-	Blue	Type E

D l Shape, 149x40mm

Product Code	Sterile	Color	Packing
CELCUCG2400X0011X16A	E.O.	White	Type D

Dehydrated Culture Media

01 Total Viable Count (TVC)

Product Code	Product	Description	Qty.
MIMEB1818FA	Plate Count Agar (PCA) (Standards Methods Agar)	Used for enumeration of viable microorganisms. (NMKL)	500 g
MIMEB1819FA	Plate Count Agar (PCA) (Standards Methods Agar)	Used for enumeration of viable microorganisms. (NMKL)	1000g
MIMEB1836FA	Nutrient Broth (NB)	A general-purpose growth medium for bacteria.	500 g
MIMEB1837FA	Nutrient Broth (NB)	A general-purpose growth medium for bacteria	1000g
MIMEB1826FA	Nutrient Agar (NA)	A general-purpose medium for the growth of a wide variety of microorganisms. (AFNOR, AOAC, BSI, FDA, ISO, NMKL)	500 g
MIMEB1827FA	Nutrient Agar (NA)	A general-purpose medium for the growth of a wide variety of microorganisms. (AFNOR, AOAC, BSI, FDA, ISO, NMKL)	1000g
MIMEB1833FA	Tryptone Soya Agar (TSA)	For enumerating and enriching nonfastidious or fastidious bacteria.	500 g
MIMEB1856FA	Tryptic Soy Broth (TSB) (Soybean Casein Digest)	Used for cultivation of a wide variety of nonfastidious microorganisms. (USP)	500 g

02 Coliforms, Escherichia coli (E. coli), fecal coliforms, and other intestinal bacteria

Product Code	Product	Description	Qty.
MIMEB1838FA	Lauryl Sulfate Tryptose Broth (LST)	Used for detecting Coliform bacteria and faecal coliforms by the multiple-tube fermentation technique.	500 g
MIMEB1839FA	Lauryl Sulfate Tryptose Broth (LST)	Used for detecting Coliform bacteria and faecal coliforms by the multiple-tube fermentation technique.	1000g
MIMEB1820FA	Violet Red Bile Glucose Agar (VRBA)	Used for selective and differential isolation of gram-negative bacilli. (USP)	500 g
MIMEB1821FA	Violet Red Bile Glucose Agar (VRBA)	Used for selective and differential isolation of gram-negative bacilli. (USP)	1000g
MIMEB1846FA	EC Broth	Used for detection of coliform bacteria at 37°C and Escherichia coli at 44.5°C. (BAM, EPA, SMWW)	500 g
MIMEB1828FA	MacConkey Agar (MAC)	Used for selective and differential isolation of gram-negative bacilli. (BAM, COMPF, SMWW, USP)	500 g
MIMEB1853FA	Eosin-Methylene Blue Agar (EMB) (Levine Agar)	Used for isolation and differentiation of Enterobacteriaceae.	500 g
MIMEB1851FA	Lactose Bile Fermentation Broth	Used for the detection of coliform bacteria in water, foods and dairy products. (AOAC, BAM, COMPF, EPA, USDA, USP)	500 g
MIMEB1852FA	Lactose Bile Fermentation Broth	Used for the detection of coliform bacteria in water, foods and dairy products. (AOAC, BAM, COMPF, EPA, USDA, USP)	1000g
MIMEB1830FA	Brain Heart Infusion Broth (BHI)	A highly nutritious medium for the growth of fastidious organisms,and suitable for blood cultures. (FDA, NMKL, USDA)	500 g

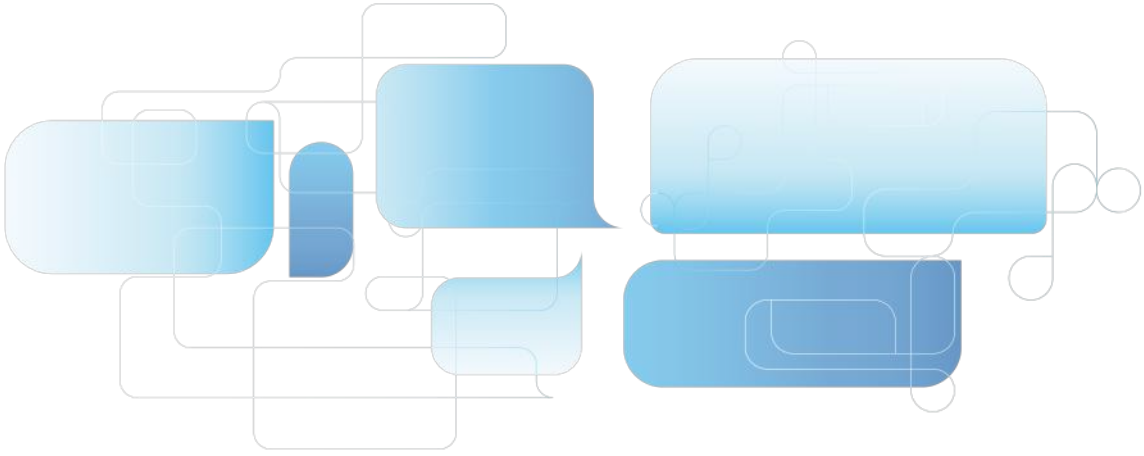
Dehydrated Culture Media

03 Yeast and mold and other fungi

Product Code	Product	Description	Qty.
MIMEB1823FA	Rose Bengal Agar	Used for selective isolation and enumeration of yeast, and fungi from environmental samples and food.	500 g
MIMEB1824FA	Rose Bengal Agar	Used for selective isolation and enumeration of yeast, and fungi from environmental samples and food.	1000g

04 Salmonella

Product Code	Product	Description	Qty.
MIMEB1840FA	Buffered Peptone Water (BPW)	A pre-enrichment medium for use prior to selective enrichment for the isolation of Salmonella spp. from foods. (AFNOR, BSI, IDF, NMKL)	500 g
MIMEB1842FA	Buffered Peptone Water (BPW)	A pre-enrichment medium for use prior to selective enrichment for the isolation of Salmonella spp. from foods. (AFNOR, BSI, IDF, NMKL)	1000g
MIMEB1841FA	Buffered Peptone Water (BPW)	A pre-enrichment medium for use prior to selective enrichment for the isolation of Salmonella spp. from foods. (AFNOR, BSI, IDF, NMKL)	1000g
MIMEB1849FA	Selenite Cystine Broth	A selective enrichment broth for isolation of Salmonella spp.	500 g
MIMEB1844FA	Tetrathionate Broth Base (TTB)	A selective enrichment medium for use with iodine for the recovery of Salmonella spp	1000g
MIMEB1843FA	Tetrathionate Broth Base (TTB)	A selective enrichment medium for use with iodine for the recovery of Salmonella spp.	500 g
MIMEB1831FA	Bismuth Sulfite Agar (BS)	Used for selective isolation of Salmonellae from faeces, urine, sewage and other materials.	500 g
MIMEB1860FA	Hektoen Enteric (HE) Agar	A differential selective medium for the isolation of Shigella and Salmonella species. (AFNOR, ISO, NMKL	500 g
MIMEB1829FA	Triple Sugar Iron (TSI) Agar	Used for the differentiation of microorganisms on the basis of dextrose, lactose and sucrose fermentation and hydrogen sulfide production.	500 g
MIMEB1834FA	Xylose Lysine Desoxycholate (XLD) Agar	Used for selective isolation of Gramnegative bacteria, especially for Salmonella and Shigella. (ISO, FDA, EP, USP)	500 g



Dehydrated Culture Media

05 Staphylococcus aureus

Product Code	Product	Description	Qty.
MIMEB1847FA	7.6% Sodium Chloride Broth	Used for the selective enrichment of Staphylococcus aureus and other salt-tolerant bacteria.	500 g
MIMEB1848FA	7.6% Sodium Chloride Broth	Used for the selective enrichment of Staphylococcus aureus and other salt-tolerant bacteria	1000g
MIMEB1835FA	Baird-Parker Agar Base	A selective medium for the isolation and enumeration of coagulase positive staphylococci. Do not use with RPF Supplement. (AFNOR, AOAC, BSI, EP, IDF, ISO, NMKL, USDA)	500 g
MIMEB1830FA	Brain Heart Infusion Broth (BHI)	A highly nutritious medium used for the growth of fastidious organisms,and suitable Used for blood cultures. (FDA, NMKL, USDA)	500 g
MIMEB1856FA	Tryptic Soy Broth (TSB) (Soybean Casein Digest)	Used for the cultivation of a wide variety of nonfastidious microorganisms. (USP)	500 g

06 Listeria monocytogenes

Product Code	Product	Description	Qty.
MIMEB1825FA	Listeria Enrichment Broth Base (UVM Formulation)	A two-step selective enrichment (USDA-FSIS) method.	500 g
MIMEB1850FA	PALCAM Agar Base	A selective and diagnostic medium used for the detection of Listeria monocytogenes. (AFNOR, IDF, NMKL)	500 g
MIMEB1822FA	Listera Chromogenic Medium	Used for chromogenic culture of Listeria and Listeria monocytogenes.	1000 mL

07 Shigella

Product Code	Product	Description	Qty.
MIMEB1845FA	Gram Negative Enrichment Broth (GN Broth)	Used for the selective enrichment of gram-negative microorganisms, especially Salmonella and Shigella. (USDA)	500 g
MIMEB1834FA	Xylose Lysine Desoxycholate (XLD) Agar	Used for selective isolation of Gramnegative bacteria, especially for Salmonella and Shigella. (ISO, FDA, EP, USP)	500 g
MIMEB1828FA	MacConkey Agar (MAC)	Used for selective and differential isolation of gram-negative bacilli. (BAM, COMPF, SMWW, USP)	500 g
MIMEB1829FA	Triple Sugar Iron (TSI) Agar	Used for the differentiation of microorganisms on the basis of dextrose, lactose and sucrose fermentation and hydrogen sulfide production.	500 g
MIMEB1826FA	Nutrient Agar (NA)	A general-purpose medium used for the growth of a wide variety of microorganisms. (AFNOR, AOAC, BSI, FDA, ISO, NMKL)	500 g

Dehydrated Culture Media

08 Diarrhoeagenic Escherichia coli

Product Code	Product	Description	Qty.
MIMEB1836FA	Nutrient Broth (NB)	A general-purpose growth medium for bacteria.	500 g
MIMEB1826FA	Nutrient Agar (NA)	A general-purpose medium used for the growth of a wide variety of microorganisms. (AFNOR, AOAC, BSI, FDA, ISO, NMKL)	500 g
MIMEB1828FA	MacConkey Agar (MAC)	Used for selective and differential isolation of gram-negative bacilli. (BAM, COMPF, SMWW, USP)	500 g
MIMEB1853FA	Eosin-Methylene Blue Agar (EMB) (Levine Agar)	Used for isolation and differentiation of Enterobacteriaceae.	500 g

09 Vibrio

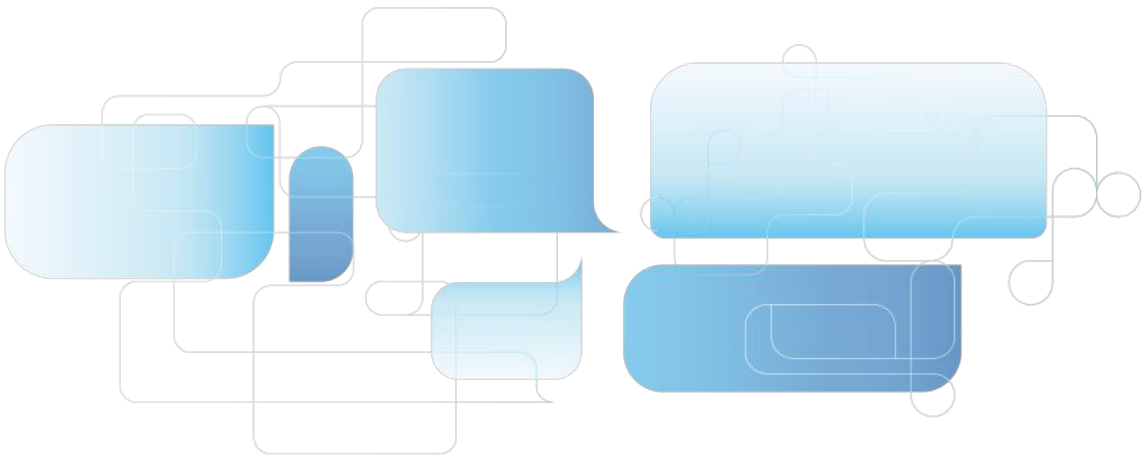
Product Code	Product	Description	Qty.
MIMEB1858FA	3% Sodium Chloride Alkaline Peptone Water	Used for enrichment of Vibrio parahaemolyticus.	500 g
MIMEB1859FA	Thiosulfate Citrate Bile Salts Sucrose (TCBS)	Used for selective isolation of enteropathogenic vibrios, especially for Vibrio cholerae and Vibrio parahaemolyticus	500 g

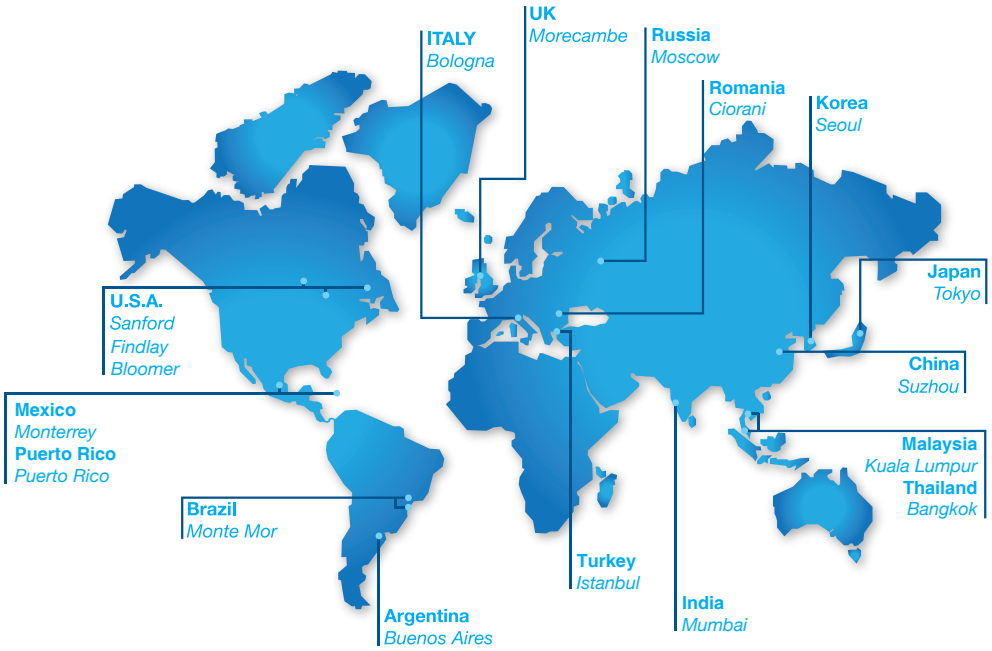
10 Other Application

Product Code	Product	Description	Qty.
MIMEB1856FA	Tryptic Soy Broth (TSB) (Soybean Casein Digest)	Used for the cultivation of a wide variety of nonfastidious microorganisms. (USP)	500 g

11 Large-Scale Products

Product Code	Product	Description	Qty.
MIMEB1842FA	Buffered Peptone Water	A pre-enrichment medium for use prior to selective enrichment for the isolation of Salmonella spp. from foods. (AFNOR, BSI, IDF, NMKL)	10 KG





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PRODUCT COLLECTION - Microbiology
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