



QUALITY CONTROL MICROORGANISM PRODUCTS

39TH EDITION RETAIL CATALOG



A safer, healthier world.

A MESSAGE FROM THE CHIEF EXECUTIVE OFFICER

Welcome to the 39th edition of the Microbiologics® Retail Catalog! First, I would like to express my sincere gratitude to all of our customers who continue to support this company year after year. You have been our inspiration to be a world-class provider of the highest quality biological reference materials for a safer, healthier world.

I'm pleased to say, the feedback we have received in response to our new catalog format has been phenomenal! Customers enjoy the ease-of-use, and appreciate the illustrated instructions and microorganism growth requirements information. This catalog features the same format, and you will notice three new product tabs have been added.

The first new tab is for Lab-Elite™ Certified Reference Materials, a third party re-authenticated microorganism preparation that comes standard with highly valued test reports detailing the Phenotypic and Genotypic characteristics as well as DNA fingerprinting. The second tab is for EZ-Accu Shot™ *Select*, which includes five compendial microorganism strains for Growth Promotion Testing in one convenient package; and the final new product tab is for Microbiologics® Custom Solutions, which include environmental isolate preservation services and specialized products.

At Microbiologics, quality has always been of paramount importance, and continual improvement is at the heart of our Quality System. This year, we updated our Quality Statement to reflect our current mission, vision and values: *Microbiologics is committed to providing the highest quality biomaterials for a safer, healthier world. We do this by complying with the requirements of our Quality Management System and continually seeking new ways to improve our products and processes.*

Our greatest strength is the team of dedicated professionals we employ, who strive each day to pursue the highest level of excellence. We believe our level of success can only be measured by the level of customer satisfaction we achieve. When you purchase from Microbiologics, you can expect the widest selection of the best products, and unsurpassed service and support.

Best regards,



Brad Goskowicz
Chief Executive Officer



Brad Goskowicz
Chief Executive Officer

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New Products for the 39th Edition

Individual Microorganism Additions			
LYFO DISK® Vial	KWIK-STIK™ 10Pk	2Pk	Microorganism Description
01057V	01057S	01057P	Acinetobacter baumannii ATCC® BAA-1605™*
01059V	01059S	01059P	Alicyclobacillus acidocaldarius subsp. acidocaldarius NCIMB 11725
01038V	01038S	01038P	Arcanobacterium haemolyticum ATCC® BAA-1784™*
01046V	01046S	01046P	Cellulosimicrobium cellulans ATCC® BAA-1816™*
01047V	01047S	01047P	Cellulosimicrobium cellulans ATCC® BAA-1817™*
01048V	01048S	01048P	Clostridium difficile ATCC® BAA-1870™*
01040V	01040S	01040P	Corynebacterium renale ATCC® BAA-1785™*
01039V	01039S	01039P	Corynebacterium urealyticum ATCC® 43044™*
01051V	01051S	01051P	Cryptococcus gattii ATCC® MYA-4560™*
01063V	01063S	01063P	Cryptococcus neoformans ATCC® 34877™*
01044V	01044S	01044P	Curtobacterium pusillum ATCC® 19096™*
01026V	01026S	01026P	Desulfotomaculum nigrificans ATCC® 7946™*
01052V	01052S	01052P	Enterococcus faecium ATCC® 6057™*
01050V	01050S	01050P	Escherichia coli ATCC® 10799™*
01062V	01062S	01062P	Escherichia coli NCTC 8622
01064V	01064S	01064P	Escherichia coli ATCC® 33849™*
01058V	01058S	01058P	Granulicatella adiacens ATCC® 43205™*
01060V	01060S	01060P	Klebsiella pneumoniae ATCC® BAA-2146™*
01061V	01061S	01061P	Listeria grayi ATCC® 19120™*
01042V	01042S	01042P	Microbacterium liquefaciens ATCC® BAA-1819™*
01041V	01041S	01041P	Microbacterium paraoxydans ATCC® BAA-1818™*
01049V	01049S	01049P	Mycobacterium haemophilum ATCC® 29548™*
01053V	01053S	01053P	Mycoplasma bovis ATCC® 25025™*
01066V	01066S	01066P	Saccharomyces cerevisiae ATCC® 18824™*
01045V	01045S	01045P	Salmonella enterica subsp. diarizonae ATCC® 29934™*
01054V	01054S	01054P	Salmonella enterica subsp. diarizonae ATCC® 12325™*
01056V	01056S	01056P	Salmonella enterica subsp. enterica serovar Abortusequi ATCC® 9842™*
01055V	01055S	01055P	Staphylococcus aureus subsp. aureus ATCC® BAA-44™*
01065V	01065S	01065P	Staphylococcus aureus NCTC 12493
01068V	01068S	01068P	Staphylococcus epidermidis ATCC® 51625™*
01067V	01067S	01067P	Staphylococcus species ATCC® 27626™*

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New Products for the 39th Edition

Microorganism Set Additions

Cat# Set Description

5197 BD Diagnostics: BD GeneOhm™* VanR QC Set

- Enterococcus casseliflavus ATCC® 25788™*
- Enterococcus faecalis ATCC® 51299™*
- Enterococcus faecium ATCC® 700221™*

8172 EZ-Accu Shot™ Select

- Aspergillus brasiliensis ATCC® 16404™*
- Bacillus subtilis subsp. spizizenii ATCC® 6633™*
- Candida albicans ATCC® 10231™*
- Pseudomonas aeruginosa ATCC® 9027™*
- Staphylococcus aureus subsp. aureus ATCC® 6538™*

5200 MicroScan®; Dried ESBL QC Set

- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 700603™*
- Pseudomonas aeruginosa ATCC® 27853™*

5202 RapID™; Staph Plus QC Set

- Enterobacter aerogenes ATCC® 13048™*
- Oligella ureolytica ATCC® 43534™*
- Staphylococcus haemolyticus ATCC® 29970™*
- Staphylococcus saprophyticus ATCC® 35552™*

5209 Vitek 2®; CBC QC Set

- Arcanobacterium haemolyticum ATCC® BAA-1784™*
- Cellulosimicrobium cellulans ATCC® BAA-1817™*
- Cellulosimicrobium cellulans ATCC® BAA-1816™*
- Corynebacterium renale ATCC® BAA-1785™*
- Corynebacterium urealyticum ATCC® 43044™*
- Curtobacterium pusillum ATCC® 19096™*
- Klebsiella oxytoca ATCC® 700324™*
- Microbacterium liquefaciens ATCC® BAA-1819™*
- Microbacterium paraoxydans ATCC® BAA-1818™*
- Microbacterium testaceum ATCC® 15829™*
- Ochrobactrum anthropi ATCC® BAA-749™*

Additional Products: Other

Product	Cat#	Product Description
Epower™	0175E7	Bifidobacterium breve ATCC® 15700™*
Epower™	0814E2	Listeria innocua ATCC® 33090™*
Epower™	0277E3	Listeria monocytogenes ATCC® 19111™*
Epower™	0698E3	Saccharomyces cerevisiae ATCC® 2601™*
EZ-Accu Shot™	0998A	Bacillus cereus ATCC® 10876™*
EZ-Accu Shot™	0366A	Enterococcus faecalis ATCC® 29212™*
EZ-Accu Shot™	0421A	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*
KWIK-STIK™ Plus	0650X	Enterococcus hirae ATCC® 8043™*
KWIK-STIK™ Plus	01024X	Haemophilus influenzae NCTC 8468
KWIK-STIK™ Plus	0919X	Haemophilus influenzae ATCC® 49766™*

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New Products for the 39th Edition

KWIK-STIK™ Plus	0647X	Haemophilus influenzae ATCC® 49247™*
KWIK-STIK™ Plus	0235X	Lactobacillus delbrueckii subsp. lactis ATCC® 7830™*
KWIK-STIK™ Plus	0648X	Neisseria gonorrhoeae ATCC® 49226™*
KWIK-STIK™ Plus	0355X	Proteus hauseri ATCC® 13315™*
KWIK-STIK™ Plus	0852X	Staphylococcus aureus subsp. aureus ATCC® 43300™*
KWIK-STIK™ Plus	0370X	Streptococcus agalactiae ATCC® 13813™*
KWIK-STIK™ Plus	0947X	Streptococcus pneumoniae ATCC® 49619™*
Lab-Elite™	0392-CRM	Aspergillus brasiliensis ATCC® 16404™*
Lab-Elite™	0998-CRM	Bacillus cereus ATCC® 10876™*
Lab-Elite™	0486-CRM	Bacillus subtilis subsp. spizizenii ATCC® 6633™*
Lab-Elite™	0443-CRM	Candida albicans ATCC® 10231™*
Lab-Elite™	0318-CRM	Clostridium perfringens ATCC® 13124™*
Lab-Elite™	0306-CRM	Enterobacter aerogenes ATCC® 13048™*
Lab-Elite™	0366-CRM	Enterococcus faecalis ATCC® 29212™*
Lab-Elite™	0335-CRM	Escherichia coli ATCC® 25922™*
Lab-Elite™	0483-CRM	Escherichia coli ATCC® 8739™*
Lab-Elite™	0681-CRM	Escherichia coli ATCC® 11229™*
Lab-Elite™	0351-CRM	Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*
Lab-Elite™	0688-CRM	Kocuria rhizophila ATCC® 9341™*
Lab-Elite™	0484-CRM	Pseudomonas aeruginosa ATCC® 9027™*
Lab-Elite™	0353-CRM	Pseudomonas aeruginosa ATCC® 27853™*
Lab-Elite™	0699-CRM	Saccharomyces cerevisiae ATCC® 9763™*
Lab-Elite™	0827-CRM	Staphylococcus aureus subsp. aureus ATCC® 6538P™*
Lab-Elite™	0360-CRM	Staphylococcus aureus subsp. aureus ATCC® 25923™*
Lab-Elite™	0485-CRM	Staphylococcus aureus subsp. aureus ATCC® 6538™*
Lab-Elite™	0371-CRM	Staphylococcus epidermidis ATCC® 12228™*
Lab-Elite™	0385-CRM	Streptococcus pyogenes ATCC® 19615™*

Slides		
Product	Cat#	Product Description
Microbiology QC Slide	SL75-10	Pneumocystis carinii Two-Well Control Slide

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Product Reference Guide

Reference Stock Cultures and QC Slides

Product	Packaging	Contents	CFU	Applications/Specifications
LYFO DISK®	Vial of lyophilized pellets	10 Pellets	Non-Enumerated	• Culture purposes • QC ID instruments • QC Antibiotic Susceptibility Test ★ Available in QC Microorganism Sets
KWIK-STIK™ 2 Pack	Self-contained unit including lyophilized pellet, hydrating fluid and swab in foil pouch	2 KWIK-STIK™ Units	Non-Enumerated	• Culture purposes • QC ID instruments • QC Antibiotic Susceptibility Test ★ Available in QC Microorganism Sets
KWIK-STIK™ 10 Pack	Self-contained unit including lyophilized pellet, hydrating fluid and swab in foil pouch	10 KWIK-STIK™ Units	Non-Enumerated	• Culture purposes • QC Identification instruments • QC Antibiotic Susceptibility Test ★ Available in QC Microorganism Sets
KWIK-STIK™ Plus	Self-contained unit including lyophilized pellet, hydrating fluid and swab in foil pouch	• 5 KWIK-STIK™ Units • Two Passages • Certificate of Assay	Non-Enumerated	• Culture Purposes • QC ID instruments • Pharmacopeial Tests ★ Two Passages ★ Provides more subcultures
KWIK-QC™ Slides	Box	10 Slides	Non-Enumerated	• For microscopic examinations ★ Contains a positive and negative inoculated well and space for concurrent staining of culture isolates or clinical samples.
Microbiology QC Slides	Box	10 Slides	Non-Enumerated	• For microscopic examinations ★ Contains one or two droplets of an air-dried and methanol fixed or preserved organism, or a smear containing a designated organism population
Lab-Elite™ Certified Reference Material	Self-contained unit including lyophilized pellet, hydrating fluid and swab in foil pouch	• 1 KWIK-STIK™ Unit • Certificate of Analysis • PFGE Subtyping Report • Sample Analysis Report	Non-Enumerated	• Validation of new methods or instruments • QC of research • ISO 17025 Laboratories • QC where known genetic properties are required ★ Single Use ★ 100% Traceable ★ PFGE Subtyping ★ Phenotypic & Genotypic Data

Product Reference Guide

Enumerated Microorganism Preparations**

Product	Packaging	Contents	CFU	Applications/Specifications
Epower™	Vial of lyophilized pellets in re-sealable plastic bag.	• 10 pellets • Certificate of Assay	Ranging from E+02 to E+08 per pellet	• Applications requiring a specific CFU range • Microbial detection & enumeration • Equipment calibration • Method validation • Bioburden determination • Minimum Lethal Concentration • Lethality Studies • Disinfectant Testing • Internal Proficiency • Water Testing
EZ-FPC™	Vial of lyophilized pellets in re-sealable plastic bag.	• 10 pellets • Certificate of Assay	• Qualitative: 1.0E+02 - 9.9E+02 per pellet • Quantitative: 1.0E+03 - 9.9E+03 per pellet	• Qualitative (presence/absence testing) and quantitative daily food process controls • Document test method accuracy, reproducibility & sensitivity • Internal Proficiency • Lethality Studies
EZ-SPORE™	Vial of lyophilized pellets in re-sealable plastic bag.	• 10 pellets • Certificate of Assay	1.0E+04 - 9.9E+04 per pellet	• Daily food process controls to verify spoilage detection methods
EZ-Accu Shot™	Canister/Kit	• 5 vials w/ 1 pellet in each • 5 vials of hydrating fluid • Certificate of Assay	Delivers <100 per 0.1 mL (when processed as directed)	• Growth Promotion Testing • Microbial Limits Testing • Microbial Enumeration Testing ★ Instant dissolve ★ No dilution ★ 8 hour stability ★ 10 Tests Per Vial
EZ-Accu Shot™ Select	Canister/Kit	• 5 vials w/ 1 pellet in each • 5 vials of hydrating fluid • Certificate of Assay	Delivers <100 per 0.1 mL (when processed as directed)	• Growth Promotion Testing • Microbial Limits Testing • Microbial Enumeration Testing ★ 5 different compendial strains in one package ★ Instant dissolve ★ No dilution ★ 8 hour stability ★ 10 Tests Per Vial
EZ-CFU™	Canister/Kit	• 2 vials of 10 Pellets • 10 vials of hydrating fluid • Certificate of Assay	Delivers <100 per 0.1 mL (when processed as directed)	• Growth Promotion Testing • Microbial Limits Testing • Microbial Enumeration Testing ★ Requires a 1:10 dilution ★ 30 minute stability ★ > 90 Tests Per Vial
EZ-CFU™ One Step	Canister/Kit	• 2 vials of 10 Pellets • 10 vials of hydrating fluid • Certificate of Assay	Delivers <100 per 0.1 mL (when processed as directed)	• Growth Promotion Testing • Microbial Limits Testing • Microbial Enumeration Testing ★ No dilution ★ 8 hour stability* ★ 19 Tests Per Vial
EZ-PEC™	Canister/Kit	• 2 vials of 10 Pellets • 10 vials of hydrating fluid • Certificate of Assay	1.0E+05 to 1.0E+06 per mL of product tested (when processed as directed)	• Antimicrobial Effectiveness and Preservative Efficacy Testing

*Exceptions to EZ-CFU™ One Step 8 hour stability are Microbiologics catalog numbers 0320Z and 0318Z, which must be used within 30 minutes of hydration.

**Enumerated Microorganism Preparations are not intended for Clinical Use

Product Reference Guide

Industry Reference Guide

Product:	Reference Stock Cultures	Enumerated Microorganism Preparations	QC Slides	Certified Reference Material
	LYFO DISK® KWIK-STIK™ QC Microorganism Set KWIK-STIK™ Plus	Epower™ EZ-FPC™ EZ-SPORE™ EZ-CFU™ EZ-CFU™ One Step EZ-Accu Shot™ EZ-Accu Shot™ Select EZ-PEC™	KWIK-QC™ Slides Microbiology QC Slides	Lab-Elite™
Clinical	• • • •		• •	•
Food	• • • •	• • • • • • • •	• •	•
Environmental/ Water	• • • •	• • • • •		•
Pharmaceutical/ Cosmetic	• • • •	• • • • • • • •	• •	•
Educational	• • • •	• • • • • • • •	• •	•

Growth Promotion Test Products

EZ-Accu Shot™ Select	EZ-Accu Shot™	EZ-CFU™ One Step	EZ-CFU™
For all types of users	For all types of users	For all types of users	For large volume user
Delivers <100 CFU/0.1mL	Delivers <100 CFU/0.1mL	Delivers <100 CFU/0.1mL	Delivers <100 CFU/0.1mL
No dilution step	No dilution step	No dilution step	One dilution step
10 tests per vial	10 tests per vial	19 tests per vial	>90 tests per vial
Stable for 8 hrs. after hydration, when refrigerated	Stable for 8 hrs. after hydration, when refrigerated	Stable for 8 hrs. after hydration, when refrigerated*	Must be used within 30 minutes of incubation
Quick-dissolve	Quick-dissolve	Pre-warm 30 minutes	Pre-warm 30 minutes
5 different strains per kit	1 strain per kit	1 strain per kit	1 strain per kit

* Exceptions to the 8 hour stability are catalog #s 0318Z and 0320Z which must be used within 30 minutes.

www.microbiologics.com

In support of our commitment to quality service, we have developed our web site into a helpful, easy-to-use resource for customers. The web site is updated regularly and is the best place to obtain the most current information. Listed below are a few examples of the resources available:

- Dynamic PDF Catalog
- Illustrated instructions
- Product descriptions and applications
- End User Registration
- Certificate of Analysis
- On-Line Ordering
- Contact Us Form
- Product Inserts (in multiple translations)
- Locate a Distributor
- Material Safety Data Sheets
- Customer & Technical Support documents
- Easy to Use Search
- Frequently Asked Questions

Customer Service

At Microbiologics, we take pride in providing you with exceptional customer service. Our customers' calls are answered by a real person and we employ a staff of friendly, knowledgeable customer service representatives who are ready to assist you with everything from account set up to online registration to placing an order. All international customers should contact an authorized distributor for ordering information. If an authorized distributor is not listed in your country, please contact Microbiologics Customer Service. If you are not sure whom you should contact with a question, contact Customer Service and they will be happy to direct you to the right person.

Contact Customer Service	
Hours:	8:00 am – 5:00 pm (CST)
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USA Toll-free:	(800) 599 – BUGS (2847)
Fax:	(320) 253-6250
E-mail:	info@microbiologics.com



Technical Support

Our Technical Support Team is made up of microbiologists and medical technologists with extensive experience. They are available to answer your questions regarding product application, processing, recommendations and other technical information.

Reference Stock Cultures: LYFO DISK®, KWIK-STIK™, KWIK-STIK™ Plus, Lab-Elite™ and QC Slides		Enumerated Microorganism Preparations: EZ-CFU™, EZ-CFU™ One Step, EZ-Accu Shot™, EZ-Accu Shot™ Select, EZ-PEC™, EZ-FPC™, EZ-SPORE™ and Epower™	
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Worldwide Distribution

Microbiologics is proudly represented by an exclusive group of the finest distribution partners throughout the world. Each Microbiologics authorized distributor is specially selected based upon their ability to provide outstanding customer service and support. Locate a distributor in your area by visiting www.microbiologics.com.

Ordering Information

All customers must register and agree to the terms of use before placing an order. To register, visit www.microbiologics.com and click on “End User License Agreement.”

International Customers

All international customers must contact an authorized distributor within their country to place an order. Please see www.microbiologics.com to search distributors by country. If an authorized distributor is not listed in your country please contact Microbiologics Customer Service at info@microbiologics.com or call (320) 253-1640.

US Customers

Customers located within the United States may purchase Microbiologics products directly or through an authorized distributor. Go to www.microbiologics.com to search for distributors in the United States. Place an order online at www.microbiologics.com or by contacting Microbiologics Customer Service. Be prepared to give the following information with your order:

- Customer Account Number
- Billing Address
- Telephone Number
- Purchase Order Number
- Fax Number
- Quantities
- Registration Numbers
- Shipping Address
- Email Address
- Credit Card Information
- Microbiologics catalog numbers or reference culture numbers
- Tax Exemption Information (Certified Exemption Form must be kept on file)

You now have the convenience of placing your **order on-line** via the Microbiologics website at www.microbiologics.com. Please email Customer Service at myaccount@microbiologics.com and request a **user log in**. Once access has been granted, please log into our website using the **My Account** tab on the **Home** page. There are multiple options to search for products. On the **Home** page menu bar, the **Products** tab allows you to select an entire product line. The blue **Search** box on the left side of the **Home** page allows you several options to search for a specific item by (1) Organism or Set Name, (2) Catalog #, or (3) by the Culture collection Ref #. To add an item to your **Shopping Cart**, select **Buy Now**. You then have the option to **Continue Shopping** or **Proceed to Checkout**.

Product Warranty

Microbiologics guarantees results when the product is stored, handled and used as directed (as per the *Expiration Date*, *Microbiologics Recommended Growth Requirements*, *Illustrated Instructions* and *Product Inserts*). Please report your concerns to Microbiologics Technical Support immediately. For more information, see the document titled *Product Warranty and Product Replacement* located in the Appendix of this catalog.

IMPORTANT: The expiration date of the product is the last day of the month specified.

Growth Requirements

The selection of media and growth requirement methods are critical in achieving the desired results from the lyophilized microorganism preparation. Please review the document titled *Microbiologics Recommended Growth Requirements* found in the front of this catalog on pages XIII-XVIII.

HELPFUL TIP: Consider ordering the recommended media and other necessary biological supplies at the same time you place a *Microbiologics* order.

BioSafety Levels

All microorganism products distributed by Microbiologics have a BioSafety level (BSL) of 1 or 2. BSL 1 organisms have no, or low, risk to individuals and communities. BSL 1 organisms may cause disease in individuals with immune systems that are suppressed or compromised. BSL 2 organisms pose a moderate risk of individual infection, but low risk of community infection. Guidelines for safely using BSL 2 microorganisms can be found on the Centers for Disease Control & Prevention Website at www.cdc.gov.

Microbiologics adheres to the BSL level designation as determined by the Reference Culture Collection from which the microorganism strain was obtained. Responsibility for safe handling of biological agents ultimately rests with the user. All infectious materials should be handled under the supervision of a competent and knowledgeable microbiologist. For more information on BioSafety levels, see TIB.072 at www.microbiologics.com or go to the Centers for Disease Control & Prevention Website at www.cdc.gov.

Mean Assay Value

The mean assay value provided on the Certificate of Assay label is the average assay value obtained by Microbiologics. Specific methods and materials are employed in determining the mean assay value. Your results may differ from the assay value listed on the product's label due to the use of different materials and methods. However, Microbiologics guarantees that if processed as directed, your results will be within the specific CFU concentration range designated for each individual product line. Please use the chart below for CFU concentration ranges.

Product	CFU
EZ-CFU™	< 100 CFU per 0.1 mL
EZ-CFU™ One Step	< 100 CFU per 0.1 mL
EZ-Accu Shot™	< 100 CFU per 0.1 mL
EZ-Accu Shot™ Select	< 100 CFU per 0.1 mL
EZ-PEC™	1.0E+05 to 1.0E+06 CFU per mL of product tested
EZ-FPC™	Qualitative: 1.0-9.9E+02 CFU per pellet Quantitative: 1.0-9.9E+03 CFU per pellet
EZ-SPORE™	1.0-9.9E+04 CFU per pellet
Epower™	E2: 1.0-9.9E+02 CFU per pellet E3: 1.0-9.9E+03 CFU per pellet E4: 1.0-9.9E+04 CFU per pellet E6: 1.0-9.9E+06 CFU per pellet E7: 1.0-9.9E+07 CFU per pellet E8: 1.0-9.9E+08 CFU per pellet

ATCC Licensed Derivative® Program

The ATCC Licensed Derivative® program was created to ensure quality and address global responsibilities for handling biological materials. A royalty fee will be charged on behalf of ATCC® for products derived from ATCC® biological material. In order to receive these products, an authorized representative from your organization must agree to the terms of the End User Agreement. It is mandatory that your organization registers for this program before we are able to process your order for lyophilized microorganism preparations containing ATCC® biological material. If you have additional questions about the program contact Microbiologics Customer Service.



Look for the ATCC Licensed Derivative® Emblem for products derived from ATCC® cultures.

Microbiologics® License and Supply Program

At Microbiologics, we care about the quality of your products and wish to continue addressing the global responsibilities when handling biological materials. Your organization will be asked to sign a Microbiologics License and Supply Agreement in order to purchase lyophilized microorganism preparations from Microbiologics.

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The nature of these products is such that they cannot be returned. As a result, the product catalog numbers, product description and quantities are verified verbally or in writing at the time the order is placed. If placing your order through an authorized Distributor please note that items may change without notice. Our microorganism sets change often and we encourage you to visit www.microbiologics.com for the most current catalog information.

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RECOMMENDED GROWTH REQUIREMENTS

LYFO DISK® AND KWIK-STIK™ Microorganisms

SELECTION OF GROWTH REQUIREMENTS

1. Primary growth on a nonselective agar medium is preferred. Primary growth in a fluid medium should only occur in special instances or when recommended. Because of the manipulations required during hydration, it is difficult to obtain purity of a lyophilized strain in a fluid medium. A contaminant may completely overgrow and obscure the presence of the lyophilized strain.
2. The following information lists which method should be used to grow the various microorganism species. Descriptions of methods follow the microorganism list.

<i>Acetobacter</i> sp.	Method 3
Note: Incubate at 25°C in CO ₂ for 3-4 days.	
<i>Achromobacter</i> sp.	Method 1
<i>Acinetobacter</i> sp.	Method 1
<i>Actinobacillus</i> sp.	Method 3
<i>Actinomyces</i> sp.	Method 4
<i>Aerococcus</i> sp.	Method 1
<i>Aeromonas</i> sp.	Method 2
Note: <i>A. hydrophila</i> should be incubated at 30°C. <i>A. salmonicida</i> should be incubated at 25°C.	
<i>Aggregatibacter</i> sp.	Method 3
<i>Alcaligenes</i> sp.	Method 1
<i>Alicyclobacillus</i> sp.	Method 12
Note: <i>A. acidoterrestris</i> , Microbiologics #0265, should be incubated at 45°C.	
<i>Alloiococcus</i> sp.	Method 2
<i>Amylomyces</i> sp.	Method 5
<i>Aneurinibacillus</i> sp.	Method 1
<i>Aquaspirillum</i> sp.	Method 1
Note: Incubate at 25°C for 6 days.	
<i>Arcanobacterium</i> sp.	Method 2
<i>Arthrobacter</i> sp.	Method 1
Note: Incubate at 25° C.	
<i>Aspergillus</i> sp.	Method 5
Note: <i>A. flavus</i> does not grow well on Standard Methods Agar (Plate Count Agar).	
<i>Bacillus</i> sp.	Method 1
Note: Some <i>Bacillus</i> sp. demonstrate better recovery on subculture when the stock organism growth is maintained at room temperature rather than 2-8° C.	
<i>Bacteroides</i> sp.	Method 4
Note: <i>B. ureolyticus</i> should be incubated 5 days. The colonies are very small. Several subculture plates may need to be inoculated in order to have sufficient quantity of the microorganism for testing.	
<i>Bifidobacterium</i> sp.	Method 4
<i>Bordetella bronchiseptica</i>	Method 20
<i>Bordetella parapertussis</i>	Method 21
<i>Bordetella pertussis</i>	Method 21
<i>Brevibacillus</i> sp.	Method 1
<i>Brevundimonas</i> sp.	Method 1
<i>Brochothrix</i> sp.	Method 1
Note: Incubate at 25°C.	
<i>Budvicia</i> sp.	Method 1
Note: Incubate at 25°C.	
<i>Burkholderia</i> sp.	Method 1
<i>Campylobacter</i> sp.	Method 6

Note: Chocolate agar is the best medium for the primary growth of *C. jejuni*. DO NOT open the inoculated agar medium petri plate for the first 48 hours.

<i>Candida</i> sp.	Method 5
<i>Capnocytophaga</i> sp.	Method 3
<i>Cedecea</i> sp.	Method 1
<i>Cellulosimicrobium</i> sp.	Method 1
<i>Citrobacter</i> sp.	Method 1
<i>Cladosporium</i> sp.	Method 5
<i>Clostridium</i> sp.	Method 4

Note: *C. difficile*, *C. sordellii*, and *C. tetani* will only grow on Anaerobic Blood Agar.

<i>Corynebacterium</i> sp.	Method 1
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Note: Use Method 2 to grow *C. urealyticum*.

<i>Cronobacter</i> sp.	Method 1
<i>Curtobacterium</i> sp.	Method 1
<i>Cryptococcus</i> sp.	Method 5

Note: *Cryptococcus* MUST be incubated at 25°C to assure growth. *C. gattii* grows best on Malt Extract Agar or Sabouraud Dextrose Emmons Agar.

<i>Deinococcus</i> sp.	Method 1
<i>Delftia</i> sp.	Method 1
<i>Desulfotomaculum</i> sp.	Method 22
<i>Edwardsiella</i> sp.	Method 1
<i>Eggerthella</i> sp.	Method 4
<i>Eikenella</i> sp.	Method 3
<i>Elizabethkingia</i> sp.	Method 1
<i>Enterobacter</i> sp.	Method 1
<i>Enterococcus</i> sp.	Method 1
<i>Erysipelothrix</i> sp.	Method 2
<i>Escherichia coli</i>	Method 1
<i>Exiguobacterium</i> sp.	Method 1
<i>Finegoldia</i> sp.	Method 4

Note: Incubate 72 to 96 hours in anaerobic atmosphere.

<i>Flavobacterium</i> sp.	Method 1
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Note: Incubate at 30°C.

<i>Fluoribacter</i> sp.	Method 8
<i>Fusarium</i> sp.	Method 5
<i>Fusobacterium</i> sp.	Method 4
<i>Gardnerella</i> sp.	Method 9
<i>Gemella</i> sp.	Method 4
<i>Geobacillus</i> sp.	Method 1

Note: *G. stearothermophilus* strains must be incubated at 55°C. *G. stearothermophilus*, Microbiologics #0137, does not grow on Sheep Blood Agar.

<i>Geotrichum</i> sp.	Method 5
<i>Granulicatella adiacens</i>	Method 24
<i>Haemophilus</i> sp.	Method 3
<i>Hafnia</i> sp.	Method 1
<i>Issatchenkia</i> sp.	Method 5
<i>Kingella</i> sp.	Method 2

Note: Incubate in 5-10% CO₂.

<i>Klebsiella</i> sp.	Method 1
<i>Kloeckera</i> sp.	Method 5
<i>Kocuria</i> sp.	Method 1

Note: *K. rosea* should be incubated at 25°C.

<i>Lactobacillus</i> sp.	Method 11
<i>Lactococcus</i> sp.	Method 2
<i>Leclercia</i> sp.	Method 1
<i>Legionella</i> sp.	Method 8
<i>Listeria</i> sp.	Method 1
<i>Lysinibacillus</i> sp.	Method 1
<i>Macrococcus</i> sp.	Method 1
<i>Malassezia</i> sp.	Method 16
<i>Mannheimia</i> sp.	Method 1

<i>Methylobacterium</i> sp.	Method 1
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Note: Incubate at 25°C for 5 days. Grows best on Standard Methods Agar (Plate Count Agar). Does not grow on Tryptic Soy Agar (Soybean Casein Digest Agar) or nonselective Sheep Blood Agar.	
<i>Microbacterium</i> sp.	Method 1
Note: Incubate at 30°C.	
<i>Micrococcus</i> sp.	Method 1
Note: Tryptic Soy Agar (Soybean Casein Digest Agar) or nonselective Sheep Blood Agar is the best medium for growth of Microbiologics #0337 and #0689.	
<i>Microsporium</i> sp.	Method 5
Note: <i>M. canis</i> grows poorly on Sabouraud Dextrose Agar.	
<i>Moraxella</i> sp.	Method 2
<i>Morganella</i> sp.	Method 1
<i>Mycobacterium</i> sp.	Method 7
Note: <i>M. gordonae</i> , <i>M. terrae</i> and <i>M. tuberculosis</i> may require up to one month incubation.	
Note: <i>M. haemophilium</i> should be grown on Middlebrook 7H11 agar and incubated at 30°C in 5 to 7% CO ₂ for 3 to 4 weeks. An X factor strip must be placed on the agar in order for the organism to grow.	
<i>Mycoplasma bovis</i>	Method 23
<i>Mycoplasma gallisepticum</i>	Method 17
<i>Mycoplasma hominis</i>	Method 13
<i>Mycoplasma hyorhinis</i>	Method 18
<i>Mycoplasma orale</i>	Method 15
<i>Mycoplasma pneumoniae</i>	Method 14
<i>Mycoplasma synoviae</i>	Method 19
<i>Myroides</i> sp.	Method 2
<i>Neisseria</i> sp.	Method 3
Note: Chocolate agar is the best medium for the initial growth of <i>Neisseria</i> species. DO NOT open the inoculated agar medium petri plate for the first 48 hours if using a candle jar.	
<i>Nocardia</i> sp.	Method 1
<i>Novosphingobium</i> sp.	Method 1
Note: Incubate at 25° C.	
<i>Ochrobactrum</i> sp.	Method 1
<i>Oligella</i> sp.	Method 2
<i>Paecilomyces</i> sp.	Method 5
<i>Paenibacillus</i> sp.	Method 1
Note: <i>P. larvae</i> should be incubated aerobically at 30° C.	
<i>Parabacteroides</i> sp.	Method 4
<i>Parvimonas</i> sp.	Method 4
Note: <i>P. micra</i> requires 5 to 7 days of anaerobic incubation.	
<i>Pasteurella</i> sp.	Method 2
<i>Pediococcus</i> sp.	Method 11
Note: <i>P. damnosus</i> may be grown in MRS broth at 25°C for 48 to 72 hours. Subculture the broth to MRS agar when it becomes cloudy. Incubate the agar at 25°C in 5 to 7% CO ₂ for 72 to 96 hours. Alternatively, the lyophilized microorganism may be grown directly on MRS Agar at 25°C in 5 to 7% CO ₂ for 5 to 7 days.	
<i>Penicillium</i> sp.	Method 5
<i>Peptoniphilus</i> sp.	Method 4
Note: Incubate 72 to 96 hours in anaerobic atmosphere.	
<i>Peptostreptococcus</i> sp.	Method 4
<i>Plesiomonas</i> sp.	Method 1
<i>Porphyromonas</i> sp.	Method 4
Note: 5 to 7 days of anaerobic incubation is required.	
<i>Prevotella</i> sp.	Method 4
Note: 5 to 7 days of anaerobic incubation is required.	
<i>Propionibacterium</i> sp.	Method 4
Note: 3 to 5 days of anaerobic incubation is required.	
<i>Proteus</i> sp.	Method 1
Note: <i>P. hauseri</i> grows best on Blood and Tryptic Soy Agar.	
<i>Prototheca</i> sp.	Method 5
<i>Providencia</i> sp.	Method 1
<i>Pseudomonas</i> sp.	Method 1
Note: <i>P. fluorescens</i> should be incubated at 25°C. <i>Pseudomonas</i> species, Microbiologics #0162, should be incubated at 30°C.	
<i>Ralstonia</i> sp.	Method 1
<i>Raoultella</i> sp.	Method 1
<i>Rhizopus</i> sp.	Method 5
<i>Rhodococcus</i> sp.	Method 2

<i>Rhodotorula</i> sp.	Method 5
<i>Saccharomyces</i> sp.	Method 5
Note: Sabouraud Dextrose Emmons Agar is the best medium for growth of <i>Saccharomyces</i> sp.	
<i>Salmonella</i> sp.	Method 1
<i>Scopulariopsis</i> sp.	Method 5
<i>Serratia</i> sp.	Method 1
<i>Shewanella</i> sp.	Method 10
<i>Shigella</i> sp.	Method 1
<i>Sordaria</i> sp.	Method 5
Note: <i>Sordaria</i> sp. sporulates better on Sabouraud Dextrose Emmons Agar than on Sabouraud Dextrose Agar.	
<i>Sphingobacterium</i> sp.	Method 1
<i>Sphingomonas</i> sp.	Method 1
Note: Incubate at 25°C.	
<i>Sporidobolus</i> sp.	Method 5
<i>Staphylococcus</i> sp.	Method 1
Note: The degree of resistance of <i>S. aureus</i> , Microbiologics #0158, to Vancomycin tends to decrease depending on age of culture, type of media, and number of subcultures. For best results, propagate strain on Brian Heart Infusion Agar with 4mcg/mL Vancomycin.	
<i>Stenotrophomonas</i> sp.	Method 1
Note: Incubate at 30°C.	
<i>Streptococcus</i> sp.	Method 2
Note: <i>S. cricetus</i> must be incubated in a microaerophilic environment. <i>Streptococcus</i> sp., Microbiologics #0978, should be grown in CO ₂ .	
<i>Streptomyces</i> sp.	Method 5
Note: <i>Streptomyces</i> sp. does not grow on Potato Dextrose Agar.	
<i>Thermoanaerobacterium</i> sp.	Method 4
Note: Primary growth medium for <i>T. thermosaccharolyticum</i> , Microbiologics #0728, is Cooked Meat Medium. Incubation at 45°C for 72 hours is required. After initial growth, organism may be grown on Anaerobic Blood Agar which is incubated at 45°C for 72 hours in anaerobic atmosphere.	
<i>Trichophyton</i> sp.	Method 5
<i>Trichosporon</i> sp.	Method 5
<i>Ureaplasma</i> sp.	Method 13
<i>Veillonella</i> sp.	Method 4
<i>Vibrio</i> sp.	Method 10
<i>Virgibacillus</i> sp.	Method 1
<i>Yarrowia</i> sp.	Method 5
<i>Yersinia</i> sp.	Method 1
<i>Zygosaccharomyces</i> sp.	Method 5
Note: <i>Z. bailii</i> , Microbiologics #01011, does not grow well on nonselective Sheep Blood Agar, Nutrient Agar, or Tryptic Soy Agar (Soybean Casein Digest Agar).	

3. The following information lists methods for growing microorganisms. When possible, more than one type of agar medium per method is listed.

Method 1

- Tryptic Soy Agar (Soybean Casein Digest Agar), nonselective Sheep Blood Agar, Standard Methods Agar (Plate Count Agar) or Nutrient Agar - 35°C in aerobic atmosphere – 24 to 48 hours.

Method 2

- Nonselective Sheep Blood Agar - 35°C in aerobic atmosphere – 24 to 72 hours. Growth of some species such as *Streptococcus* and *Arcanobacterium* are enhanced by CO₂ enrichment of the incubation atmosphere. 5% CO₂ is recommended for the culture of *Streptococcus pneumoniae* and other streptococcal species of the viridians group.

Method 3

- Chocolate Agar - 35°C in 5% to 7% CO₂ – 24 to 48 hours.

Method 4

- Anaerobic Blood Agar 35°C in Anaerobic Environment – 48 to 72 hours.
- Some obligate anaerobes may require 5 to 7 days to demonstrate sufficient growth.
- Fresh prepared Nutrient Agar, Tryptic Soy Agar (Soybean Casein Digest Agar), Standard Methods Agar (Plate Count Agar) are appropriate alternatives for some *Clostridium* species together with an additional period (24 hours) of incubation.

Method 5

- Sabouraud Dextrose Emmons Agar - 25°C in aerobic atmosphere – 2 to 7 days.
- Nonselective Sheep Blood Agar is an appropriate alternative.
- Nutrient Agar, Tryptic Soy Agar, Potato Dextrose Agar and Standard Plate Count Agar are appropriate alternatives together with an additional period (24 hours) of incubation.

Method 6

- Chocolate Agar - 35°C in Microaerophilic Environment – 48 to 72 hours.

Method 7

- Lowenstein Jensen Agar or Middlebrook Agar - 35°C in 5 to 7% CO₂ or aerobic atmosphere – up to one week. *M. fortuitum* subsp. *fortuitum*, *M. peregrinum* and *M. smegmatis* will also grow on Tryptic Soy Agar (Soybean Casein Digest Agar) as well as Lowenstein Jensen and Middlebrook Agar but additional incubation time may be required.

Method 8

- Buffered Charcoal Yeast Extract Agar - 35°C in aerobic atmosphere – 3 to 5 days.

Method 9

- V Agar or Chocolate Agar - 35°C in 5% to 7% CO₂ – 48 hours.

Method 10

- Rehydrate in sterile Brain Heart Infusion Broth, Tryptic Soy Broth (Soybean Casein Digest Agar) or 0.85% Saline. Rehydration with water may result in decreased or no recovery. Rehydration with fluid provided in the KWIK-STIK™ unit provides satisfactory recovery.
- Grow on Tryptic Soy Agar (Soybean Casein Digest Agar) - 35°C in aerobic atmosphere – 24 to 48 hrs. *Vibrio* sp. also grows on Marine Agar.

Method 11

- The primary growth medium is MRS (Man, Rogosa, Sharpe) Broth. Incubate at 35°C in aerobic atmosphere for 48 hours. Transfer to either Columbia CNA with Sheep Blood or Tryptic Soy Agar with Sheep Blood. Incubate at 35°C in 5 to 7% CO₂ for 48 hrs. A few *Lactobacilli* species, such as *L. fermentum*, *L. paracasei* subsp. *paracasei*, *L. plantarum*, *L. rhamnosus*, and *L. sakei*, do not need to be started in Lactobacilli MRS broth. They may be plated directly to Columbia CNA with Sheep Blood or Tryptic Soy Agar with Sheep Blood and incubated at 35°C in 5 to 7% CO₂ for 48 hrs.

Method 12

- Potato Dextrose Agar - 55°C in aerobic atmosphere – 24 to 48 hours.

Method 13

- Rehydrate 1 pellet of *M. hominis* or *Ureaplasma* sp. in 10B Arginine Broth. Alternatively inoculate broth with a KWIK-STIK. Make serial dilutions (for example, 1:10, 1:100, 1:1000, 1:10,000). Incubate at 35°C in aerobic atmosphere. As soon as the Arginine vial turns pink (24 to 48 hours), sub 0.1 mL of broth to A-8 Agar and streak for isolation. DO NOT use cotton swab or wooden shaft. Incubate mycoplasma at 35°C in 5 to 7% CO₂. Incubate ureaplasma at 35°C anaerobically for up to 96 hours. In order to see colonies, examine plates microscopically.

Method 14

- Rehydrate 1 pellet of *M. pneumoniae* in SP4 Glucose Broth. Alternatively, inoculate broth with a KWIK-STIK. Make serial dilutions (for example, 1:2, 1:4, 1:8, 1:16, 1:32). Incubate at 35°C in aerobic atmosphere. As soon as the broth turns from red to yellow (1-4 weeks), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. DO NOT use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 5 to 15 days. In order to see colonies, examine plates microscopically.

Method 15

- Rehydrate 1 pellet of *M. orale* in 10B Arginine Broth. Alternatively, inoculate broth with a KWIK-STIK. Make serial dilutions (for example, 1:10, 1:100, 1:1000). Incubate at 35°C, in aerobic atmosphere. As soon as the broth turns from yellow to pink (48 to 72 hours), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. DO NOT use cotton swab or wooden shaft. Incubate plates at 35°C in anaerobic conditions for 3 to 6 days. In order to see colonies, examine plates microscopically.

Method 16

- Leeming Notman Agar - 30°C in aerobic atmosphere – 72 hours.

Method 17

- Rehydrate 1 pellet of *M. gallisepticum* in SP4 Glucose Broth. Alternatively, inoculate broth with a KWIK-STIK. Make serial dilutions (for example, 1:2, 1:4). Incubate at 35°C in aerobic atmosphere. As soon as the broth turns from red to yellow (4 days to 2 weeks), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. DO NOT use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 3 days to 2 weeks. In order to see colonies, examine plates microscopically.

Method 18

- Rehydrate 1 pellet of *M. hyorhinis* in SP4 Glucose Broth. Alternatively, inoculate broth with a KWIK-STIK. Make serial dilutions (for example, 1:10, 1:100, 1:1000). Incubate at 35°C in aerobic atmosphere. As soon as the broth turns from red to yellow (4 days to 2 weeks), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. DO NOT use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 2 to 10 days. In order to see colonies, examine plates microscopically.

Method 19

- Rehydrate 1 pellet of *M. synoviae* in SP4 Glucose Broth. Alternatively, inoculate broth with a KWIK-STIK. Make serial dilutions (for example, 1:2, 1:4, 1:8, 1:16, 1:32). Incubate at 35°C in 5 to 10% CO₂ for 7 days. After 7 days (no color change will be noted), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. DO NOT use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 1 to 4 weeks. In order to see colonies, examine plates microscopically.

Method 20

- Chocolate agar, Sheep Blood Agar, Tryptic Soy Agar, Bordet Gengou Agar with 15% Defibrinated Sheep Blood - 35°C in aerobic atmosphere – 24 to 48 hours. Standard Methods (Plate Count Agar) or Nutrient Agar are appropriate alternatives together with an additional period (24 hours) of incubation.

Method 21

- Chocolate or Bordet Gengou Agar with 15% Defibrinated Sheep Blood - 35°C in aerobic atmosphere – 2 days to one week. *B. pertussis*, Microbiologics #100, and *B. pertussis*, Microbiologics #0843, require Bordet Gengou Agar with 15% Defibrinated Sheep Blood.

Method 22

- Prepare ISF (modified Infant Soy Formula) Broth using the following steps: 1) fill tubes with 10 mL Infant Soy Formula, 2) place a four-penny nail in each tube, and 3) sterilize the broth. Infant Soy Formula may be purchased at a grocery store. A four-penny nail is approximately 1.5 inches or 38 mm in length. It should contain steel or iron.
Inoculate ISF Broth with one LYFO DISK® or KWIK-STIK®. Make two dilutions, 1:10 and 1:100. Plate undiluted sample and plate the 1:10 and 1:100 dilutions. It is necessary to plate the diluted samples because at higher concentrations the colonies are pin-point which makes colony characteristics difficult to see. Grow at 55° in anaerobic conditions for 48 hours. The broth will turn grey, indicating growth. Sub with a swab to Sulfite Agar. Sulfite Agar is used for detecting thermophilic anaerobes which produce sulfite. Incubate the agar in anaerobic environment at 55°C for 7 days.

Method 23

- Inoculate Mycoplasma Broth with LYFO DISK® or KWIK-STIK®. Prepare serial dilutions of 1:10, 1:100, and 1:1000 using the broth. Incubate at 35°C for 48 hours. Then plate 0.2 mL of the turbid broth culture to Mycoplasma Agar. Incubate agar in 5 to 7% CO₂ at 35° for 3 to 7 days. DO NOT use cotton swabs or wooden sticks. In order to see colonies, examine plates microscopically.

Method 24

- Sheep Blood Agar supplemented with Pyridoxal - 35° C in 5% to 7% CO₂ – 24 to 48 hours.

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KWIK-STIK™ PRODUCT DETAILS

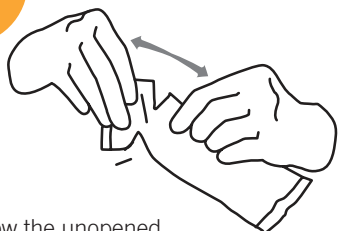
The KWIK-STIK™ is well-known for its clever design and accurate, repeatable results. Each KWIK-STIK™ device features a single microorganism strain in a lyophilized pellet, a reservoir of hydrating fluid, and inoculating swab. For added convenience, a peel-off identification label is included for easy documentation. The KWIK-STIK™ is available in packs of 2 or 10.



KWIK-STIK™ Instructions for Use

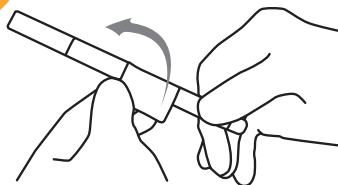
Please add the packaging option to the catalog number when placing an order: P = KWIK-STIK™ 2 Pack,
S = KWIK-STIK™ 10 Pack. Example: 0335P, 0335S

1



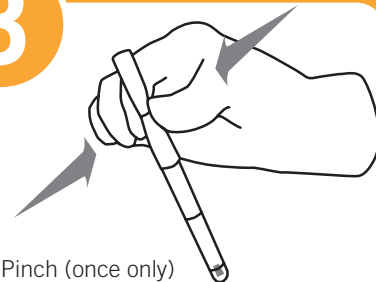
Allow the unopened KWIK-STIK™ pouch to equilibrate to room temperature. Tear open pouch at notch and remove the KWIK-STIK™ unit.

2



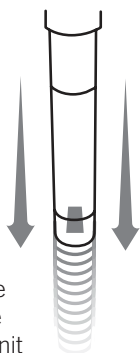
Tear off Pull-Tab portion on the label and attach it to the primary culture plate or QC record. Do not disassemble the device during hydration.

3



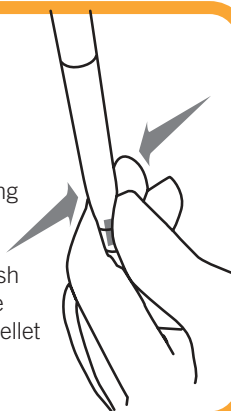
Pinch (once only) the ampoule at the top of the KWIK-STIK™ (just below the fluid meniscus of the ampoule) found in the cap to release the hydrating fluid.

4



Hold vertically and tap on a hard surface to facilitate flow of fluid through shaft into bottom of unit containing pellet. Allow the hydrating fluid to flow through the swab shaft and into the bottom portion of the unit containing the pellet.

5



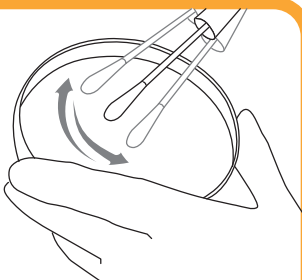
Using a pinching action on the bottom portion of the unit, crush the pellet in the fluid until the pellet suspension is homogenous.

6



IMMEDIATELY heavily saturate the swab with the hydrated material and transfer to agar medium.

7



Inoculate the primary culture plate(s) by gently rolling the swab over one-third of the plate.

8



Using a sterile loop, streak to facilitate colony isolation.

9

Using proper biohazard disposal, discard the KWIK-STIK™.



10

IMMEDIATELY incubate the inoculated primary culture plate(s) at temperature and conditions appropriate to the microorganism.



LYFO DISK®

FOR CULTURE PURPOSES AND QC APPLICATIONS

- Economical
- Refrigerated storage
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty

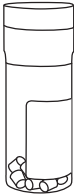


LYFO DISK™ PRODUCT DETAILS

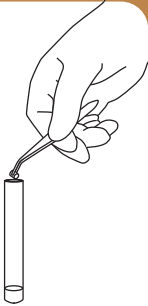
LYFO DISK® is a lyophilized pellet containing a single strain of a microorganism and is the most economical reference stock culture option. LYFO DISK® is known for its ease-of-use; simply re-hydrate the pellet and inoculate. LYFO DISK® is available in a re-sealable vial containing 10 pellets of a single microorganism strain.

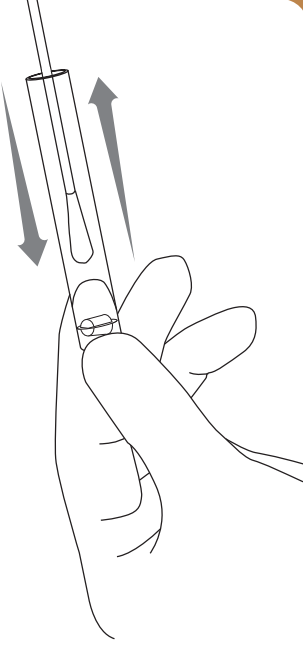
LYFO DISK® Instructions for Use

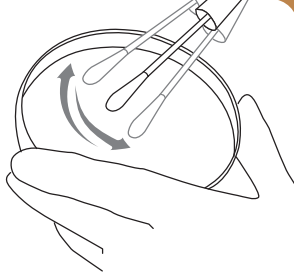
Please add the packaging option to the catalog number when placing an order: V = LYFO DISK®. Example: 0335V

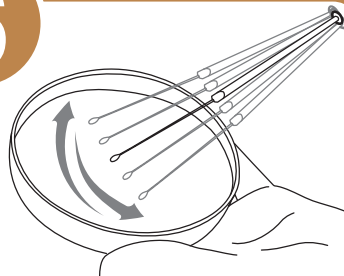
- 

Remove the unopened LYFO DISK® vial from 2°C to 8°C storage and allow the unopened vial to equilibrate to room temperature.
- 

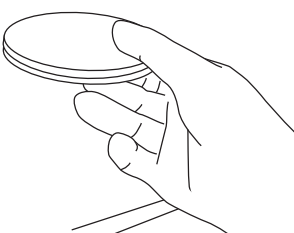
Aseptically remove one (1) pellet with sterile forceps from the vial.
Do not remove desiccant.
- 

Place the pellet in 0.5 mL of sterile fluid (water, saline, TSB, or BHIB).
IMMEDIATELY stopper and recap vial and return the resealed vial to 2° to 8° storage.
- 

Crush the pellet with a sterile swab until the suspension is homogenous.
IMMEDIATELY heavily saturate the same swab with the hydrated material and transfer to agar medium.
- 

Inoculate the primary culture plate(s) by gently rolling the swab over one-third of the plate.
- 

Using a sterile loop, streak to facilitate colony isolation.
- 

Using proper biohazard disposal, discard the remaining hydrated material.
- 

IMMEDIATELY incubate the inoculated media at temperature and conditions appropriate to the microorganism.

Note: Step # 3 TSB is Tryptic Soy Broth and BHIB is Brain Heart Infusion Broth

Visit www.microbiologics.com or call 320.253.1640 to place your order!

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
10Pk	2Pk					
Acetobacter						
0511V	0511S	0511P	Acetobacter aceti ATCC® 15973™*	C	1	
Achromobacter						
0516V	0516S	0516P	Achromobacter xylosoxidans ATCC® 27061™*	D	2	
Acinetobacter						
0599V	0599S	0599P	Acinetobacter baumannii NCIMB 12457	B	1	
0357V	0357S	0357P	Acinetobacter baumannii ATCC® 19606™*	B	2	
01057V	01057S	01057P	Acinetobacter baumannii ATCC® BAA-1605™*	C	2	multi-drug resistant
0119V	0119S	0119P	Acinetobacter baumannii ATCC® BAA-747™*	D	2	
0609V	0609S	0609P	Acinetobacter haemolyticus ATCC® 19002™*	C	2	
0468V	0468S	0468P	Acinetobacter lwoffii ATCC® 15309™*	C	2	
0973V	0973S	0973P	Acinetobacter lwoffii ATCC® 17925™*	D	2	
01001V	01001S	01001P	Acinetobacter species ATCC® 10153™*	C	2	
0636V	0636S	0636P	Acinetobacter species ATCC® 49137™*	C	2	
0635V	0635S	0635P	Acinetobacter species ATCC® 49139™*	C	2	
0934V	0934S	0934P	Acinetobacter species ATCC® 49466™*	C	2	
0160V	0160S	0160P	Acinetobacter species ATCC® 51819™*	D	1	formerly Micrococcus species
Actinobacillus						
0658V	0658S	0658P	Actinobacillus pleuropneumoniae ATCC® 27088™*	D	2	
0789V	0789S	0789P	Actinobacillus pleuropneumoniae ATCC® 27090™*	D	2	
Actinomyces						
0939V	0939S	0939P	Actinomyces odontolyticus ATCC® 17929™*	D	2	
0750V	0750S	0750P	Actinomyces viscosus ATCC® 15987™*	D	2	
Aerococcus						
0263V	0263S	0263P	Aerococcus viridans ATCC® 10400™*	C	1	
0276V	0276S	0276P	Aerococcus viridans ATCC® 11563™*	C	1	
0746V	0746S	0746P	Aerococcus viridans ATCC® 700406™*	D	1	
Aeromonas						
0807V	0807S	0807P	Aeromonas caviae ATCC® 15468™*	C	1	
0910V	0910S	0910P	Aeromonas hydrophila ATCC® 35654™*	C	2	
0637V	0637S	0637P	Aeromonas hydrophila ATCC® 49140™*	C	2	
0290V	0290S	0290P	Aeromonas hydrophila ATCC® 7965™*	C	2	
0870V	0870S	0870P	Aeromonas hydrophila ATCC® 7966™*	C	2	
0788V	0788S	0788P	Aeromonas salmonicida subsp. salmonicida ATCC® 33658™*	D	1	
Aggregatibacter						
0862V	0862S	0862P	Aggregatibacter aphrophilus ATCC® 19415™*	D	1	does not require X factor; formerly Haemophilus aphrophilus
0467V	0467S	0467P	Aggregatibacter aphrophilus ATCC® 29241™*	D	2	V-dependant; formerly Haemophilus paraphrophilus
0184V	0184S	0184P	Aqgregatibacter aphrophilus ATCC® 33389™*	D	1	formerly Haemophilus aphrophilus

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
Alcaligenes						
0911V	0911S	0911P	Alcaligenes faecalis subsp. faecalis ATCC® 35655™*	C	1	
0402V	0402S	0402P	Alcaligenes faecalis subsp. faecalis ATCC® 8750™*	C	1	
Alicyclobacillus						
01059V	01059S	01059P	Alicyclobacillus acidocaldarius subsp. acidocaldarius NCIMB 11725	D	1	
0265V	0265S	0265P	Alicyclobacillus acidoterrestris ATCC® 49025™*	D	1	
Alloiococcus						
0542V	0542S	0542P	Alloiococcus otitis ATCC® 51267™*	C	2	
Amylomyces						
0492V	0492S	0492P	Amylomyces rouxii ATCC® 24905™*	C	1	
Aneurinibacillus						
0141V	0141S	0141P	Aneurinibacillus aneurinoliticus ATCC® 11376™*	C	1	
Aquaspirillum						
0169V	0169S	0169P	Aquaspirillum species ATCC® 49643™*	E	1	
Arcanobacterium						
01038V	01038S	01038P	Arcanobacterium haemolyticum ATCC® BAA-1784™*	D	2	
0660V	0660S	0660P	Arcanobacterium pyogenes ATCC® 19411™*	D	2	
0966V	0966S	0966P	Arcanobacterium pyogenes ATCC® 49698™*	D	2	
Arthrobacter						
0260V	0260S	0260P	Arthrobacter psychrolactophilus ATCC® 700733™*	C	1	psychrotroph
Aspergillus						
0392V	0392S	0392P	Aspergillus brasiliensis ATCC® 16404™*	E	1	fungus
0302V	0302S	0302P	Aspergillus brasiliensis NCPF 2275	E	1	formerly Aspergillus niger; fungus
01021V	01021S	01021P	Aspergillus fumigatus ATCC® 204305™*	E	2	fungus
0245V	0245S	0245P	Aspergillus niger ATCC® 16888™*	E	1	fungus
0500V	0500S	0500P	Aspergillus niger ATCC® 6275™*	E	1	fungus
0177V	0177S	0177P	Aspergillus oryzae ATCC® 10124™*	E	1	fungus
0532V	0532S	0532P	Aspergillus ustus ATCC® 10760™*	E	1	fungus
Bacillus						
0515V	0515S	0515P	Bacillus atrophaeus ATCC® 51189™*	C	1	
0953V	0953S	0953P	Bacillus atrophaeus ATCC® 9372™*	B	1	
01008V	01008S	01008P	Bacillus badius ATCC® 14574™*	B	1	
0998V	0998S	0998P	Bacillus cereus ATCC® 10876™*	B	1	
0256V	0256S	0256P	Bacillus cereus ATCC® 11778™*	C	1	
0999V	0999S	0999P	Bacillus cereus ATCC® 13061™*	B	1	
0200V	0200S	0200P	Bacillus cereus ATCC® 14579™*	D	1	
0509V	0509S	0509P	Bacillus cereus ATCC® 2™*	C	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0198V	0198S	0198P	Bacillus cereus ATCC® 33019™*	C	2	
0330V	0330S	0330P	Bacillus cereus NCIMB 7464	B	2	
0311V	0311S	0311P	Bacillus cereus NCIMB 8967	B	2	
0507V	0507S	0507P	Bacillus circulans ATCC® 4516™*	C	1	
0140V	0140S	0140P	Bacillus circulans ATCC® 61™*	C	1	
0596V	0596S	0596P	Bacillus coagulans ATCC® 7050™*	B	1	
0812V	0812S	0812P	Bacillus licheniformis ATCC® 12759™*	B	1	
0799V	0799S	0799P	Bacillus licheniformis ATCC® 14580™*	D	1	
0201V	0201S	0201P	Bacillus megaterium ATCC® 14581™*	C	1	
0116V	0116S	0116P	Bacillus megaterium ATCC® 9885™*	C	1	
0258V	0258S	0258P	Bacillus pumilus ATCC® 14884™*	C	1	
0577V	0577S	0577P	Bacillus pumilus ATCC® 700814™*	C	1	
0474V	0474S	0474P	Bacillus pumilus ATCC® BAA-1434™*	C	1	
0269V	0269S	0269P	Bacillus subtilis ATCC® 11774™*	C	1	
0540V	0540S	0540P	Bacillus subtilis ATCC® 19659™*	C	1	
0486V	0486S	0486P	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	B	1	
0582V	0582S	0582P	Bacillus subtilis subsp. spizizenii NCIMB 8054	B	1	
0120V	0120S	0120P	Bacillus subtilis subsp. subtilis ATCC® 6051™*	C	1	
0270V	0270S	0270P	Bacillus thuringiensis ATCC® 10792™*	C	1	
0539V	0539S	0539P	Bacillus thuringiensis ATCC® 33679™*	B	1	serotype H3:3a,3b
Bacteroides						
0940V	0940S	0940P	Bacteroides fragilis ATCC® 23745™*	D	2	
0320V	0320S	0320P	Bacteroides fragilis ATCC® 25285™*	D	2	
0358V	0358S	0358P	Bacteroides fragilis NCTC 9343	D	2	
0400V	0400S	0400P	Bacteroides ovatus ATCC® 8483™*	D	2	
0585V	0585S	0585P	Bacteroides ovatus ATCC® BAA-1296™*	D	2	
0587V	0587S	0587P	Bacteroides ovatus ATCC® BAA-1304™*	D	2	
0319V	0319S	0319P	Bacteroides thetaiotaomicron ATCC® 29741™*	D	2	
0619V	0619S	0619P	Bacteroides uniformis ATCC® 8492™*	D	2	
0908V	0908S	0908P	Bacteroides ureolyticus ATCC® 33387™*	D	2	
0848V	0848S	0848P	Bacteroides vulgatus ATCC® 29327™*	D	2	
0445V	0445S	0445P	Bacteroides vulgatus ATCC® 8482™*	D	2	
Bifidobacterium						
01025V	01025S	01025P	Bifidobacterium bifidum ATCC® 11863™*	D	1	
0175V	0175S	0175P	Bifidobacterium breve ATCC® 15700™*	D	1	
Bordetella						
0655V	0655S	0655P	Bordetella bronchiseptica ATCC® 10580™*	D	2	
0671V	0671S	0671P	Bordetella bronchiseptica ATCC® 4617™*	D	2	
0842V	0842S	0842P	Bordetella parapertussis ATCC® 15311™*	D	2	
0489V	0489S	0489P	Bordetella pertussis ATCC® 8467™*	D	2	
0100V	0100S	0100P	Bordetella pertussis ATCC® 9340™*	D	2	

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0843V	0843S	0843P	Bordetella pertussis ATCC® 9797™*	D	2	
			<i>Brevibacillus</i>			
0139V	0139S	0139P	Brevibacillus agri ATCC® 51663™*	C	1	
0798V	0798S	0798P	Brevibacillus brevis ATCC® 8246™*	B	1	
0144V	0144S	0144P	Brevibacillus laterosporus ATCC® 64™*	C	1	
			<i>Brevundimonas</i>			
0754V	0754S	0754P	Brevundimonas diminuta ATCC® 11568™*	B	1	
0805V	0805S	0805P	Brevundimonas diminuta ATCC® 19146™*	D	1	
			<i>Brochothrix</i>			
0150V	0150S	0150P	Brochothrix thermosphacta ATCC® 11509™*	D	1	
			<i>Budvicia</i>			
0213V	0213S	0213P	Budvicia aquatica ATCC® 51341™*	C	1	
			<i>Burkholderia</i>			
0488V	0488S	0488P	Burkholderia cepacia ATCC® 25416™*	C	2	
0836V	0836S	0836P	Burkholderia cepacia ATCC® 25608™*	C	2	
			<i>Campylobacter</i>			
01023V	01023S	01023P	Campylobacter coli ATCC® 33559™*	E	2	
0121V	0121S	0121P	Campylobacter coli ATCC® 43478™*	E	2	
0718V	0718S	0718P	Campylobacter jejuni subsp. jejuni NCTC 11322	E	2	
0339V	0339S	0339P	Campylobacter jejuni subsp. jejuni NCTC 11351	E	2	serotype 23
0712V	0712S	0712P	Campylobacter jejuni subsp. jejuni NCTC 13367	E	2	
0325V	0325S	0325P	Campylobacter jejuni subsp. jejuni ATCC® 29428™*	E	2	
0481V	0481S	0481P	Campylobacter jejuni subsp. jejuni ATCC® 33291™*	E	2	
0111V	0111S	0111P	Campylobacter jejuni subsp. jejuni ATCC® 33560™*	E	2	
0525V	0525S	0525P	Campylobacter jejuni subsp. jejuni ATCC® 43430™*	E	2	serotype O:2
0251V	0251S	0251P	Campylobacter jejuni subsp. jejuni ATCC® 49943™*	E	2	
0188V	0188S	0188P	Campylobacter jejuni subsp. jejuni ATCC® BAA-1153™*	E	2	
			<i>Candida</i>			
0443V	0443S	0443P	Candida albicans ATCC® 10231™*	D	1	
0379V	0379S	0379P	Candida albicans NCYC 1363	D	1	
0332V	0332S	0332P	Candida albicans ATCC® 14053™*	D	1	
0896V	0896S	0896P	Candida albicans ATCC® 2091™*	D	1	
0800V	0800S	0800P	Candida albicans ATCC® 24433™*	D	1	
0672V	0672S	0672P	Candida albicans ATCC® 26790™*	D	1	
0425V	0425S	0425P	Candida albicans ATCC® 60193™*	D	1	
0538V	0538S	0538P	Candida albicans ATCC® 62376™*	D	1	
0981V	0981S	0981P	Candida albicans ATCC® 66027™*	D	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0264V	0264S	0264P	Candida albicans ATCC® 90028™*	D	1	
0250V	0250S	0250P	Candida albicans ATCC® 90029™*	D	1	
0187V	0187S	0187P	Candida catenulata ATCC® 10565™*	D	1	
0520V	0520S	0520P	Candida geochares ATCC® 36852™*	D	1	
0737V	0737S	0737P	Candida glabrata ATCC® 15126™*	D	1	
0992V	0992S	0992P	Candida glabrata ATCC® 2001™*	D	1	
0226V	0226S	0226P	Candida glabrata ATCC® 64677™*	D	1	
0986V	0986S	0986P	Candida glabrata ATCC® 66032™*	D	1	
0122V	0122S	0122P	Candida glabrata ATCC® MYA-2950™*	E	1	
0738V	0738S	0738P	Candida guilliermondii ATCC® 6260™*	D	1	
0777V	0777S	0777P	Candida kefyr ATCC® 204093™*	D	1	
0990V	0990S	0990P	Candida kefyr ATCC® 2512™*	D	1	
0769V	0769S	0769P	Candida kefyr ATCC® 4135™*	D	1	
0982V	0982S	0982P	Candida kefyr ATCC® 66028™*	D	1	
0809V	0809S	0809P	Candida krusei ATCC® 14243™*	D	1	
0510V	0510S	0510P	Candida krusei ATCC® 34135™*	D	1	
0774V	0774S	0774P	Candida lusitanae ATCC® 34449™*	D	1	
0145V	0145S	0145P	Candida lusitanae ATCC® 66035™*	D	1	
0770V	0770S	0770P	Candida magnoliae ATCC® 201379™*	D	1	
0772V	0772S	0772P	Candida membranaefaciens ATCC® 201377™*	D	1	
0726V	0726S	0726P	Candida parapsilosis ATCC® 22019™*	D	1	
01036V	01036S	01036P	Candida tropicalis ATCC® 1369™*	D	1	
0450V	0450S	0450P	Candida tropicalis ATCC® 13803™*	D	1	
0767V	0767S	0767P	Candida tropicalis ATCC® 201380™*	D	1	
0768V	0768S	0768P	Candida tropicalis ATCC® 201381™*	D	1	
0983V	0983S	0983P	Candida tropicalis ATCC® 66029™*	D	1	
0847V	0847S	0847P	Candida tropicalis ATCC® 750™*	D	1	
0897V	0897S	0897P	Candida tropicalis ATCC® 9968™*	D	1	
0779V	0779S	0779P	Candida utilis ATCC® 9950™*	D	1	
<i>Capnocytophaga</i>						
0361V	0361S	0361P	Capnocytophaga sputigena NCTC 11653	C	2	
0749V	0749S	0749P	Capnocytophaga sputigena ATCC® 33612™*	C	2	
<i>Cedecea</i>						
0517V	0517S	0517P	Cedecea neteri ATCC® 33855™*	C	2	
<i>Cellulosimicrobium</i>						
0294V	0294S	0294P	Cellulosimicrobium cellulans ATCC® 27402™*	D	1	
01046V	01046S	01046P	Cellulosimicrobium cellulans ATCC® BAA-1816™*	D	1	
01047V	01047S	01047P	Cellulosimicrobium cellulans ATCC® BAA-1817™*	D	1	
<i>Citrobacter</i>						
0478V	0478S	0478P	Citrobacter braakii ATCC® 43162™*	B	1	
0578V	0578S	0578P	Citrobacter braakii ATCC® 51113™*	C	1	



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Individual Microorganisms

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	10Pk	2Pk				
0229V	0229S	0229P	Citrobacter freundii ATCC® 43864™*	B	1	
0315V	0315S	0315P	Citrobacter freundii ATCC® 8090™*	C	1	
0574V	0574S	0574P	Citrobacter freundii NCTC 9750	C	1	
0106V	0106S	0106P	Citrobacter koseri ATCC® 27156™*	C	1	
<i>Cladosporium</i>						
0537V	0537S	0537P	Cladosporium cladosporioides ATCC® 16022™*	D	1	fungus
<i>Clostridium</i>						
0828V	0828S	0828P	Clostridium bifermentans ATCC® 638™*	D	1	
0833V	0833S	0833P	Clostridium difficile ATCC® 43593™*	D	2	serogroup B; toxin A and B negative
0527V	0527S	0527P	Clostridium difficile ATCC® 700057™*	D	2	nontoxigenic
0329V	0329S	0329P	Clostridium difficile ATCC® 9689™*	D	2	produces cytotoxin
01048V	01048S	01048P	Clostridium difficile ATCC® BAA-1870™*	D	2	
0327V	0327S	0327P	Clostridium histolyticum ATCC® 19401™*	D	2	
0801V	0801S	0801P	Clostridium perfringens ATCC® 12915™*	D	2	for USA shipment only
0123V	0123S	0123P	Clostridium perfringens ATCC® 12916™*	D	2	for USA shipment only
0674V	0674S	0674P	Clostridium perfringens ATCC® 12919™*	D	2	for USA shipment only
0318V	0318S	0318P	Clostridium perfringens ATCC® 13124™*	D	2	
0257V	0257S	0257P	Clostridium perfringens ATCC® 3624™*	D	2	for USA shipment only
0572V	0572S	0572P	Clostridium perfringens NCTC 8237	D	2	Type A
0547V	0547S	0547P	Clostridium perfringens NCTC 8678	D	2	non-epsilon toxin producing; heat resistant
0586V	0586S	0586P	Clostridium septicum ATCC® 12464™*	D	2	
0708V	0708S	0708P	Clostridium sordellii NCIMB 10717	D	2	
0331V	0331S	0331P	Clostridium sordellii ATCC® 9714™*	D	2	
0487V	0487S	0487P	Clostridium sporogenes ATCC® 11437™*	D	1	
0580V	0580S	0580P	Clostridium sporogenes NCIMB 12343	D	1	
0317V	0317S	0317P	Clostridium sporogenes ATCC® 19404™*	D	1	
0676V	0676S	0676P	Clostridium sporogenes ATCC® 3584™*	D	1	
0704V	0704S	0704P	Clostridium tetani ATCC® 19406™*	D	2	
<i>Corynebacterium</i>						
0844V	0844S	0844P	Corynebacterium diphtheriae ATCC® 13812™*	D	2	
0275V	0275S	0275P	Corynebacterium minutissimum ATCC® 23348™*	D	2	
0965V	0965S	0965P	Corynebacterium pseudodiphtheriticum ATCC® 10700™*	D	1	
0884V	0884S	0884P	Corynebacterium pseudodiphtheriticum ATCC® 10701™*	D	1	
0575V	0575S	0575P	Corynebacterium pseudodiphtheriticum NCTC 11136	D	1	
0293V	0293S	0293P	Corynebacterium renale ATCC® 19412™*	D	2	
01040V	01040S	01040P	Corynebacterium renale ATCC® BAA-1785™*	D	2	
0583V	0583S	0583P	Corynebacterium striatum ATCC® BAA-1293™*	D	1	
01039V	01039S	01039P	Corynebacterium urealyticum ATCC® 43044™*	D	2	
0153V	0153S	0153P	Corynebacterium xerosis ATCC® 373™*	D	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
Cronobacter						
0756V	0756S	0756P	Cronobacter muytjensii ATCC® 51329™*	D	1	
Cryptococcus						
0984V	0984S	0984P	Cryptococcus albidus ATCC® 66030™*	D	2	
0451V	0451S	0451P	Cryptococcus albidus var. albidus ATCC® 34140™*	D	2	
01051V	01051S	01051P	Cryptococcus gattii ATCC® MYA-4560™*	D	2	
0225V	0225S	0225P	Cryptococcus humicola ATCC® 64676™*	D	1	formerly Cryptococcus humicolus
0972V	0972S	0972P	Cryptococcus humicola ATCC® 9949™*	D	1	formerly Cryptococcus humicolus
0333V	0333S	0333P	Cryptococcus laurentii ATCC® 18803™*	D	1	
0991V	0991S	0991P	Cryptococcus laurentii ATCC® 66036™*	D	2	
0916V	0916S	0916P	Cryptococcus laurentii ATCC® 76483™*	D	1	
0291V	0291S	0291P	Cryptococcus neoformans ATCC® 14116™*	D	2	
0781V	0781S	0781P	Cryptococcus neoformans ATCC® 204092™*	D	2	
0334V	0334S	0334P	Cryptococcus neoformans ATCC® 32045™*	D	2	
01063V	01063S	01063P	Cryptococcus neoformans ATCC® 34877™*	D	2	serotype B
0985V	0985S	0985P	Cryptococcus neoformans ATCC® 66031™*	D	2	
0915V	0915S	0915P	Cryptococcus neoformans ATCC® 76484™*	D	2	
0987V	0987S	0987P	Cryptococcus uniguttulatus ATCC® 66033™*	D	2	
Curtobacterium						
01044V	01044S	01044P	Curtobacterium pusillum ATCC® 19096™*	D	1	
Deinococcus						
0210V	0210S	0210P	Deinococcus radiodurans ATCC® 13939™*	C	1	
Delftia						
0230V	0230S	0230P	Delftia acidovorans ATCC® 43868™*	C	1	
Desulfotomaculum						
01026V	01026S	01026P	Desulfotomaculum nigrificans ATCC® 7946™*	D	1	
Edwardsiella						
0845V	0845S	0845P	Edwardsiella tarda ATCC® 15947™*	C	2	
Eggerthella						
0936V	0936S	0936P	Eggerthella lenta ATCC® 43055™*	D	1	
Eikenella						
0183V	0183S	0183P	Eikenella corrodens ATCC® 23834™*	D	2	
0189V	0189S	0189P	Eikenella corrodens ATCC® BAA-1152™*	C	2	
Elizabethkingia						
0971V	0971S	0971P	Elizabethkingia meningoseptica ATCC® 13253™*	C	2	
Enterobacter						
0597V	0597S	0597P	Enterobacter aerogenes NCIMB 10102	B	2	
0306V	0306S	0306P	Enterobacter aerogenes ATCC® 13048™*	B	1	
0399V	0399S	0399P	Enterobacter aerogenes ATCC® 35029™*	B	1	

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0196V	0196S	0196P	Enterobacter aerogenes ATCC® 51697™*	D	1	
0166V	0166S	0166P	Enterobacter amnigenus ATCC® 51816™*	D	1	
0394V	0394S	0394P	Enterobacter cloacae subsp. cloacae NCTC 10005	B	1	
0323V	0323S	0323P	Enterobacter cloacae subsp. cloacae ATCC® 13047™*	B	1	
0313V	0313S	0313P	Enterobacter cloacae subsp. cloacae ATCC® 23355™*	B	1	
0388V	0388S	0388P	Enterobacter cloacae subsp. cloacae ATCC® 35030™*	B	1	
0639V	0639S	0639P	Enterobacter cloacae subsp. cloacae ATCC® 49141™*	C	1	
01018V	01018S	01018P	Enterobacter cloacae subsp. cloacae ATCC® BAA-1143™*	C	2	control strain for the AmpC disk test; strong positive
0703V	0703S	0703P	Enterobacter gergoviae ATCC® 33028™*	D	2	
0755V	0755S	0755P	Enterobacter hormaechei ATCC® 700323™*	C	1	formerly Enterobacter cloacae subsp. cloacae
Enterococcus						
0387V	0387S	0387P	Enterococcus avium ATCC® 14025™*	C	1	
0117V	0117S	0117P	Enterococcus casseliflavus ATCC® 25788™*	C	1	
0761V	0761S	0761P	Enterococcus casseliflavus ATCC® 700327™*	B	1	
0623V	0623S	0623P	Enterococcus durans ATCC® 11576™*	C	1	
0651V	0651S	0651P	Enterococcus durans ATCC® 6056™*	C	1	
0336V	0336S	0336P	Enterococcus faecalis NCIMB 13280	C	2	
0714V	0714S	0714P	Enterococcus faecalis NCTC 13379	C	2	
0181V	0181S	0181P	Enterococcus faecalis ATCC® 14506™*	C	2	
0367V	0367S	0367P	Enterococcus faecalis ATCC® 19433™*	C	2	
0366V	0366S	0366P	Enterococcus faecalis ATCC® 29212™*	C	2	
0197V	0197S	0197P	Enterococcus faecalis ATCC® 33186™*	D	2	
0941V	0941S	0941P	Enterococcus faecalis ATCC® 49452™*	C	2	
0753V	0753S	0753P	Enterococcus faecalis ATCC® 49532™*	C	2	high level Gentamicin-resistant and Streptomycin-sensitive
0752V	0752S	0752P	Enterococcus faecalis ATCC® 49533™*	C	2	high level Gentamicin-sensitive and Streptomycin-resistant
0959V	0959S	0959P	Enterococcus faecalis ATCC® 51299™*	C	2	Vancomycin resistant and high level aminoglycosides, vanB
0497V	0497S	0497P	Enterococcus faecalis ATCC® 7080™*	C	2	
0472V	0472S	0472P	Enterococcus faecalis NCTC 775	B	2	
0679V	0679S	0679P	Enterococcus faecium ATCC® 27270™*	C	2	
0968V	0968S	0968P	Enterococcus faecium ATCC® 35667™*	C	2	
01052V	01052S	01052P	Enterococcus faecium ATCC® 6057™*	D	2	
0677V	0677S	0677P	Enterococcus faecium ATCC® 6569™*	C	2	
01000V	01000S	01000P	Enterococcus faecium ATCC® 700221™*	C	2	Vancomycin resistant
0895V	0895S	0895P	Enterococcus gallinarum ATCC® 49573™*	C	1	
0745V	0745S	0745P	Enterococcus gallinarum ATCC® 700425™*	D	1	
0678V	0678S	0678P	Enterococcus hirae ATCC® 10541™*	D	1	

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	10Pk	2Pk				
0624V	0624S	0624P	Enterococcus hirae ATCC® 49135™*	C	1	formerly <i>Enterococcus durans</i>
0935V	0935S	0935P	Enterococcus hirae ATCC® 49479™*	D	1	formerly <i>Enterococcus durans</i>
0650V	0650S	0650P	Enterococcus hirae ATCC® 8043™*	C	1	
0857V	0857S	0857P	Enterococcus raffinosus ATCC® 49464™*	C	1	
0223V	0223S	0223P	Enterococcus saccharolyticus ATCC® 43076™*	C	1	
<i>Erysipelothrix</i>						
0661V	0661S	0661P	Erysipelothrix rhusiopathiae ATCC® 19414™*	C	2	
<i>Escherichia</i>						
0680V	0680S	0680P	Escherichia coli ATCC® 10536™*	D	1	
0706V	0706S	0706P	Escherichia coli NCTC 10538	B	1	K12
01050V	01050S	01050P	Escherichia coli ATCC® 10799™*	C	1	
0681V	0681S	0681P	Escherichia coli ATCC® 11229™*	C	1	
0502V	0502S	0502P	Escherichia coli ATCC® 11303™*	D	1	
0465V	0465S	0465P	Escherichia coli ATCC® 11775™*	C	1	serovar O1:K1:H7
0707V	0707S	0707P	Escherichia coli NCIMB 11943	C	2	
0715V	0715S	0715P	Escherichia coli NCTC 11954	C	1	beta lactamase producer
0570V	0570S	0570P	Escherichia coli NCIMB 12210	A	2	
0861V	0861S	0861P	Escherichia coli NCTC 12900	C	1	serotype O157:H7; non toxigenic; for USA shipment only
0747V	0747S	0747P	Escherichia coli ATCC® 13706™*	C	1	
0682V	0682S	0682P	Escherichia coli ATCC® 13762™*	C	1	
0543V	0543S	0543P	Escherichia coli ATCC® 14169™*	B	1	
0202V	0202S	0202P	Escherichia coli ATCC® 14948™*	D	1	
0203V	0203S	0203P	Escherichia coli ATCC® 23848™*	C	1	Genotype B
0335V	0335S	0335P	Escherichia coli ATCC® 25922™*	A	1	
0887V	0887S	0887P	Escherichia coli ATCC® 33605™*	C	1	
01064V	01064S	01064P	Escherichia coli ATCC® 33849™*	C	1	DH1; transformation host
0617V	0617S	0617P	Escherichia coli ATCC® 35150™*	C	2	serotype O157:H7; for USA shipment only
0495V	0495S	0495P	Escherichia coli ATCC® 35218™*	C	1	beta lactamase producer
0422V	0422S	0422P	Escherichia coli ATCC® 35421™*	C	1	
0433V	0433S	0433P	Escherichia coli ATCC® 4157™*	C	1	
0795V	0795S	0795P	Escherichia coli ATCC® 43888™*	C	2	serotype O157:H7; for USA shipment only; does not produce Shiga-Like Toxin I or II
0869V	0869S	0869P	Escherichia coli ATCC® 51446™*	C	2	
0860V	0860S	0860P	Escherichia coli ATCC® 51755™*	D	1	
0791V	0791S	0791P	Escherichia coli ATCC® 51813™*	C	1	
0536V	0536S	0536P	Escherichia coli ATCC® 53498™*	B	2	
0231V	0231S	0231P	Escherichia coli ATCC® 700728™*	C	1	serotype O157:H7; for USA shipment only; nontoxigenic
0581V	0581S	0581P	Escherichia coli NCIMB 8545	C	2	
01062V	01062S	01062P	Escherichia coli NCTC 8622	C	2	serovar O126:K7(B16):H2; for USA shipment only

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Individual Microorganisms

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	10Pk	2Pk				
0483V	0483S	0483P	Escherichia coli ATCC® 8739™*	C	1	
0115V	0115S	0115P	Escherichia coli ATCC® 9637™*	D	1	
0204V	0204S	0204P	Escherichia coli (JM101) ATCC® 33876™*	C	1	
<i>Exiguobacterium</i>						
0964V	0964S	0964P	Exiguobacterium aurantiacum ATCC® 49676™*	D	2	group A
<i>Finegoldia</i>						
0409V	0409S	0409P	Finegoldia magna ATCC® 29328™*	D	1	
<i>Flavobacterium</i>						
0164V	0164S	0164P	Flavobacterium species ATCC® 51823™*	D	1	
<i>Fluoribacter</i>						
0212V	0212S	0212P	Fluoribacter bozemaniae ATCC® 33217™*	E	2	
<i>Fusarium</i>						
0531V	0531S	0531P	Fusarium solani ATCC® 36031™*	E	2	fungus
<i>Fusobacterium</i>						
0407V	0407S	0407P	Fusobacterium necrophorum subsp. necrophorum ATCC® 25286™*	D	2	
0386P	0386S	0386V	Fusobacterium nucleatum subsp. nucleatum NCTC 10562	C	1	
0328V	0328S	0328P	Fusobacterium nucleatum subsp. nucleatum ATCC® 25586™*	D	2	
0886V	0886S	0886P	Fusobacterium varium ATCC® 27725™*	D	1	
<i>Gardnerella</i>						
0410V	0410S	0410P	Gardnerella vaginalis ATCC® 14018™*	C	2	
0252V	0252S	0252P	Gardnerella vaginalis ATCC® 14019™*	C	2	
0643V	0643S	0643P	Gardnerella vaginalis ATCC® 49145™*	C	2	
<i>Gemella</i>						
0298V	0298S	0298P	Gemella morbillorum ATCC® 27824™*	D	2	
<i>Geobacillus</i>						
0172V	0172S	0172P	Geobacillus stearothermophilus ATCC® 10149™*	C	1	
0137V	0137S	0137P	Geobacillus stearothermophilus ATCC® 12978™*	C	1	
0872V	0872S	0872P	Geobacillus stearothermophilus ATCC® 12980™*	B	1	
0871V	0871S	0871P	Geobacillus stearothermophilus ATCC® 7953™*	D	1	
<i>Geotrichum</i>						
0519V	0519S	0519P	Geotrichum candidum ATCC® 34614™*	D	1	
0482V	0482S	0482P	Geotrichum capitatum ATCC® 10663™*	E	1	
0124V	0124S	0124P	Geotrichum capitatum ATCC® 28576™*	D	1	
<i>Granulicatella</i>						
01058V	01058S	01058P	Granulicatella adiacens ATCC® 43205™*	D	2	
<i>Haemophilus</i>						
0381V	0381S	0381P	Haemophilus haemolyticus ATCC® 33390™*	D	2	

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	10Pk	2Pk				
0441V	0441S	0441P	Haemophilus influenzae ATCC® 10211™*	C	2	<i>type b; beta lactamase negative</i>
0850V	0850S	0850P	Haemophilus influenzae NCTC 11931	C	2	
0717V	0717S	0717P	Haemophilus influenzae NCTC 12699	C	2	
0716V	0716S	0716P	Haemophilus influenzae NCTC 13377	C	2	<i>type b</i>
0376V	0376S	0376P	Haemophilus influenzae ATCC® 19418™*	C	2	
0338V	0338S	0338P	Haemophilus influenzae ATCC® 33533™*	C	2	<i>type b; beta lactamase producer</i>
0829V	0829S	0829P	Haemophilus influenzae ATCC® 33930™*	C	2	<i>resistant to ampicillin, chloramphenicol and tetracycline</i>
0993V	0993S	0993P	Haemophilus influenzae ATCC® 35056™*	D	2	<i>beta lactamase producer</i>
0438V	0438S	0438P	Haemophilus influenzae ATCC® 43065™*	C	2	
0476V	0476S	0476P	Haemophilus influenzae ATCC® 43163™*	C	2	<i>beta lactamase producer</i>
0396V	0396S	0396P	Haemophilus influenzae NCTC 4560	C	2	
0644V	0644S	0644P	Haemophilus influenzae ATCC® 49144™*	C	2	<i>beta lactamase producer</i>
0647V	0647S	0647P	Haemophilus influenzae ATCC® 49247™*	C	2	
0919V	0919S	0919P	Haemophilus influenzae ATCC® 49766™*	C	2	
0397V	0397S	0397P	Haemophilus influenzae NCTC 8143	B	2	
01024V	01024S	01024P	Haemophilus influenzae NCTC 8468	C	2	
0620V	0620S	0620P	Haemophilus influenzae ATCC® 9006™*	C	2	<i>type a</i>
0185V	0185S	0185P	Haemophilus influenzae ATCC® 9007™*	D	2	<i>type c</i>
0377V	0377S	0377P	Haemophilus parahaemolyticus ATCC® 10014™*	C	2	
0411V	0411S	0411P	Haemophilus parainfluenzae ATCC® 7901™*	C	2	
0645V	0645S	0645P	Haemophilus paraphrophilus ATCC® 49146™*	D	2	
0249V	0249S	0249P	Haemophilus paraphrophilus ATCC® 49917™*	D	2	
0790V	0790S	0790P	Haemophilus somnus ATCC® 700025™*	D	2	
Hafnia						
0165V	0165S	0165P	Hafnia alvei ATCC® 51815™*	D	1	
Issatchenkia						
0227V	0227S	0227P	Issatchenkia orientalis ATCC® 6258™*	D	2	
Kingella						
0148V	0148S	0148P	Kingella denitrificans ATCC® 33394™*	D	2	
Klebsiella						
0530V	0530S	0530P	Klebsiella oxytoca ATCC® 13182™*	B	2	
0606V	0606S	0606P	Klebsiella oxytoca ATCC® 43086™*	C	2	
0477V	0477S	0477P	Klebsiella oxytoca ATCC® 43165™*	B	2	
0214V	0214S	0214P	Klebsiella oxytoca ATCC® 43863™*	B	2	
0626V	0626S	0626P	Klebsiella oxytoca ATCC® 49131™*	B	2	
0167V	0167S	0167P	Klebsiella oxytoca ATCC® 51817™*	D	2	
0757V	0757S	0757P	Klebsiella oxytoca ATCC® 700324™*	D	2	
0840V	0840S	0840P	Klebsiella oxytoca ATCC® 8724™*	B	2	
0573V	0573S	0573P	Klebsiella pneumoniae NCTC 9633	A	2	
01019V	01019S	01019P	Klebsiella pneumoniae ATCC® BAA-1144™*	C	2	<i>control strain for the AmpC disk test; weak positive</i>

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Individual Microorganisms

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	10Pk	2Pk				
01005V	01005S	01005P	Klebsiella pneumoniae ATCC® BAA-1705™*	B	2	Modified Hodge Test (MHT) positive control
01006V	01006S	01006P	Klebsiella pneumoniae ATCC® BAA-1706™*	B	2	Modified Hodge Test (MHT) negative control
01060V	01060S	01060P	Klebsiella pneumoniae ATCC® BAA-2146™*	D	2	New Delhi metallo-beta-lactamase (NDM-1) positive
0684V	0684S	0684P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 10031™*	C	2	
0719V	0719S	0719P	Klebsiella pneumoniae subsp. pneumoniae NCTC 13368	D	2	
0458V	0458S	0458P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 13882™*	B	2	
0351V	0351S	0351P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*	A	2	
0685V	0685S	0685P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 27736™*	B	2	
0261V	0261S	0261P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 31488™*	D	2	
0957V	0957S	0957P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 33495™*	C	2	
0942V	0942S	0942P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 35657™*	D	2	
0683V	0683S	0683P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 4352™*	B	2	
0784V	0784S	0784P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 700603™*	D	2	ESBL positive
0305V	0305S	0305P	Klebsiella pneumoniae subsp. pneumoniae NCIMB 8267	B	2	
0103V	0103S	0103P	Klebsiella pneumoniae subsp. pneumoniae ATCC® 8308™*	C	2	
0471V	0471S	0471P	Klebsiella pneumoniae subsp. pneumoniae NCIMB 9111	C	2	
Kloeckera						
0125V	0125S	0125P	Kloeckera apiculata var. apis ATCC® 32857™*	C	1	
01012V	01012S	01012P	Kloeckera japonica ATCC® 58370™*	C	1	
Kocuria						
0126V	0126S	0126P	Kocuria kristinae ATCC® BAA-752™*	C	1	
0670V	0670S	0670P	Kocuria rhizophila ATCC® 15957™*	C	1	
0359V	0359S	0359P	Kocuria rhizophila ATCC® 533™*	C	1	
0309V	0309S	0309P	Kocuria rhizophila NCIMB 8553	D	1	
0669V	0669S	0669P	Kocuria rhizophila ATCC® 9341a™*	C	1	
0688V	0688S	0688P	Kocuria rhizophila ATCC® 9341™*	D	1	
0766V	0766S	0766P	Kocuria rosea ATCC® 186™*	D	1	
0161V	0161S	0161P	Kocuria varians ATCC® 51820™*	D	1	
Lactobacillus						
0885V	0885S	0885P	Lactobacillus acidophilus ATCC® 314™*	C	1	
0243V	0243S	0243P	Lactobacillus acidophilus ATCC® 4356™*	D	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0546V	0546S	0546P	Lactobacillus casei ATCC® 334™*	D	1	
0176V	0176S	0176P	Lactobacillus casei ATCC® 393™*	D	1	
0235V	0235S	0235P	Lactobacillus delbrueckii subsp. lactis ATCC® 7830™*	C	1	
0813V	0813S	0813P	Lactobacillus fermentum ATCC® 9338™*	C	1	
0127V	0127S	0127P	Lactobacillus gasseri ATCC® 19992™*	C	1	
0526V	0526S	0526P	Lactobacillus paracasei subsp. paracasei ATCC® BAA-52™*	C	1	
0234V	0234S	0234P	Lactobacillus plantarum ATCC® 8014™*	D	1	
0233V	0233S	0233P	Lactobacillus rhamnosus ATCC® 7469™*	D	1	
0569V	0569S	0569P	Lactobacillus rhamnosus NCIMB 7473	C	1	
0989V	0989S	0989P	Lactobacillus rhamnosus ATCC® 9595™*	C	1	
0128V	0128S	0128P	Lactobacillus sakei subsp. sakei ATCC® 15521™*	C	1	
Lactococcus						
0980V	0980S	0980P	Lactococcus lactis ATCC® 49032™*	C	1	formerly Enterococcus faecium
0205V	0205S	0205P	Lactococcus lactis subsp. lactis ATCC® 11454™*	D	1	
0149V	0149S	0149P	Lactococcus lactis subsp. lactis ATCC® 19435™*	D	1	
0152V	0152S	0152P	Lactococcus lactis subsp. cremoris ATCC® 19257™*	D	1	
Leclercia						
0837V	0837S	0837P	Leclercia adecarboxylata ATCC® 23216™*	C	1	
0758V	0758S	0758P	Leclercia adecarboxylata ATCC® 700325™*	B	1	
Legionella						
01003V	01003S	01003P	Legionella longbeachae ATCC® 33462™*	E	2	
0211V	0211S	0211P	Legionella pneumophila subsp. pneumophila ATCC® 33152™*	E	2	
Listeria						
01061V	01061S	01061P	Listeria grayi ATCC® 19120™*	C	1	
0856V	0856S	0856P	Listeria grayi ATCC® 25401™*	D	1	
0222V	0222S	0222P	Listeria grayi ATCC® 700545™*	D	1	
0414V	0414S	0414P	Listeria innocua NCTC 11288	D	1	serotype 6a
0814V	0814S	0814P	Listeria innocua ATCC® 33090™*	D	1	
0815V	0815S	0815P	Listeria ivanovii subsp. ivanovii ATCC® 19119™*	D	2	
0299V	0299S	0299P	Listeria ivanovii subsp. ivanovii ATCC® BAA-139™*	D	1	
0783V	0783S	0783P	Listeria monocytogenes NCTC 10890	D	2	serotype 7
0308V	0308S	0308P	Listeria monocytogenes NCIMB 13726	D	2	serotype 4b
0129V	0129S	0129P	Listeria monocytogenes ATCC® 13932™*	C	2	serotype 4b
0727V	0727S	0727P	Listeria monocytogenes ATCC® 15313™*	D	2	non-hemolytic on sheep blood
0277V	0277S	0277P	Listeria monocytogenes ATCC® 19111™*	D	2	serotype 1
0232V	0232S	0232P	Listeria monocytogenes ATCC® 19112™*	D	2	serotype 2
0686V	0686S	0686P	Listeria monocytogenes ATCC® 19114™*	D	2	serotype 4a
0687V	0687S	0687P	Listeria monocytogenes ATCC® 19115™*	D	2	serotype 4b

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Individual Microorganisms

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	10Pk	2Pk				
0154V	0154S	0154P	Listeria monocytogenes ATCC® 19118™*	D	2	serotype 4e
0398V	0398S	0398P	Listeria monocytogenes ATCC® 7644™*	D	2	
0130V	0130S	0130P	Listeria monocytogenes ATCC® BAA-751™*	C	2	
0254V	0254S	0254P	Listeria monocytogenes Cornell University SLR2249	D	2	Act A gene removed
0802V	0802S	0802P	Listeria seeligeri ATCC® 35967™*	D	1	
0816V	0816S	0816P	Listeria welshimeri ATCC® 35897™*	D	1	
Lysinibacillus						
0810V	0810S	0810P	Lysinibacillus sphaericus ATCC® 4525™*	D	1	formerly Bacillus sphaericus
Macrococcus						
0415V	0415S	0415P	Macrococcus caseolyticus ATCC® 13518™*	C	1	formerly Staphylococcus epidermidis
0962V	0962S	0962P	Macrococcus caseolyticus ATCC® 35662™*	C	2	
Malassezia						
0701V	0701S	0701P	Malassezia furfur ATCC® 14521™*	D	2	fungus
Mannheimia						
0664V	0664S	0664P	Mannheimia haemolytica ATCC® 33396™*	C	2	
Methylobacterium						
0280V	0280S	0280P	Methylobacterium mesophilicum ATCC® 29983™*	E	1	
Microbacterium						
0163V	0163S	0163P	Microbacterium esteraromaticum ATCC® 51822™*	D	1	
01042V	01042S	01042P	Microbacterium liquefaciens ATCC® BAA-1819™*	D	1	
01041V	01041S	01041P	Microbacterium paraoxydans ATCC® BAA-1818™*	D	1	
0295V	0295S	0295P	Microbacterium testaceum ATCC® 15829™*	D	1	
Micrococcus						
0689V	0689S	0689P	Micrococcus luteus ATCC® 10240™*	C	1	
0242V	0242S	0242P	Micrococcus luteus ATCC® 4698™*	D	1	
0804V	0804S	0804P	Micrococcus luteus ATCC® 49732™*	C	1	
0218V	0218S	0218P	Micrococcus luteus ATCC® 7468™*	C	1	
0337V	0337S	0337P	Micrococcus luteus NCIMB 8166	C	1	
0740V	0740S	0740P	Micrococcus species ATCC® 700405™*	D	1	
Microsporum						
0894V	0894S	0894P	Microsporum canis ATCC® 36299™*	E	2	fungus
0893V	0893S	0893P	Microsporum gypseum ATCC® 24102™*	E	2	fungus
Moraxella						
0273V	0273S	0273P	Moraxella nonliquefaciens ATCC® 17953™*	C	2	
Moraxella (Branhamella)						
0248V	0248S	0248P	Moraxella (Branhamella) catarrhalis ATCC® 23246™*	D	1	
0951V	0951S	0951P	Moraxella (Branhamella) catarrhalis ATCC® 25238™*	C	1	

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	10Pk	2Pk				
0403V	0403S	0403P	Moraxella (Branhamella) catarrhalis ATCC® 25240™*	C	1	
0395V	0395S	0395P	Moraxella (Branhamella) catarrhalis NCTC 4103	D	1	
0642V	0642S	0642P	Moraxella (Branhamella) catarrhalis ATCC® 49143™*	C	1	
0622V	0622S	0622P	Moraxella (Branhamella) catarrhalis ATCC® 8176™*	C	1	
<i>Moraxella (Moraxella)</i>						
0475V	0475S	0475P	Moraxella (Moraxella) osloensis ATCC® 10973™*	C	2	
<i>Morganella</i>						
0215V	0215S	0215P	Morganella morganii subsp. morganii ATCC® 25829™*	C	2	
0839V	0839S	0839P	Morganella morganii subsp. morganii ATCC® 25830™*	D	2	
<i>Mycobacterium</i>						
0522V	0522S	0522P	Mycobacterium avium subsp. avium ATCC® 15769™*	E	2	serotype 1
0544V	0544S	0544P	Mycobacterium avium subsp. avium ATCC® 25291™*	E	2	serotype 2
0513V	0513S	0513P	Mycobacterium fortuitum subsp. fortuitum ATCC® 6841™*	E	2	
0364V	0364S	0364P	Mycobacterium gordonae NCTC 10267	E	2	
0995V	0995S	0995P	Mycobacterium gordonae ATCC® 14470™*	E	2	
01049V	01049S	01049P	Mycobacterium haemophilum ATCC® 29548™*	E	2	requires hemin (x factor) for growth
0157V	0157S	0157P	Mycobacterium intracellulare ATCC® 13950™*	E	2	
0545V	0545S	0545P	Mycobacterium kansasii ATCC® 12478™*	E	2	
0512V	0512S	0512P	Mycobacterium peregrinum ATCC® 700686™*	E	2	
0721V	0721S	0721P	Mycobacterium smegmatis ATCC® 14468™*	E	1	
0514V	0514S	0514P	Mycobacterium smegmatis ATCC® 19420™*	E	1	
0114V	0114S	0114P	Mycobacterium smegmatis ATCC® 607™*	E	1	
0272V	0272S	0272P	Mycobacterium terrae ATCC® 15755™*	E	1	
0112V	0112S	0112P	Mycobacterium tuberculosis ATCC® 25177™*	E	2	attenuated
<i>Mycoplasma</i>						
01053V	01053S	01053P	Mycoplasma bovis ATCC® 25025™*	E	2	
0427V	0427S	0427P	Mycoplasma gallisepticum NCTC 10115	E	2	
0156V	0156S	0156P	Mycoplasma hominis ATCC® 15488™*	D	2	
0428V	0428S	0428P	Mycoplasma hyorhinis NCTC 10130	E	2	
0424V	0424S	0424P	Mycoplasma orale NCTC 10112	E	2	
0504V	0504S	0504P	Mycoplasma orale ATCC® 23714™*	E	2	
0503V	0503S	0503P	Mycoplasma pneumoniae ATCC® 15531™*	E	2	
0430V	0430S	0430P	Mycoplasma synoviae NCTC 10124	E	2	
<i>Myroides</i>						
0324V	0324S	0324P	Myroides odoratus ATCC® 4651™*	D	1	

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price	BSL	Comment
	10Pk	2Pk		Code		
Neisseria						
0378V	0378S	0378P	Neisseria gonorrhoeae ATCC® 19424™*	C	2	beta lactamase producer
0375V	0375S	0375P	Neisseria gonorrhoeae ATCC® 31426™*	C	2	
0429V	0429S	0429P	Neisseria gonorrhoeae ATCC® 43069™*	C	2	
0426V	0426S	0426P	Neisseria gonorrhoeae ATCC® 43070™*	C	2	
0648V	0648S	0648P	Neisseria gonorrhoeae ATCC® 49226™*	C	2	Penicillin resistant
0552V	0552S	0552P	Neisseria gonorrhoeae ATCC® 49498™*	B	2	
0952V	0952S	0952P	Neisseria gonorrhoeae ATCC® 49981™*	D	2	
0368V	0368S	0368P	Neisseria gonorrhoeae NCTC 8375	C	2	
0405V	0405S	0405P	Neisseria lactamica ATCC® 23970™*	C	2	serogroup B
0943V	0943S	0943P	Neisseria lactamica ATCC® 23971™*	C	2	
0646V	0646S	0646P	Neisseria lactamica ATCC® 49142™*	C	2	
0649V	0649S	0649P	Neisseria meningitidis NCTC 10026	C	2	
0453V	0453S	0453P	Neisseria meningitidis ATCC® 13077™*	C	2	serogroup A
0454V	0454S	0454P	Neisseria meningitidis ATCC® 13090™*	C	2	serogroup B
0404V	0404S	0404P	Neisseria meningitidis ATCC® 13102™*	C	2	serogroup C
01004V	01004S	01004P	Neisseria meningitidis ATCC® 13113™*	C	2	serogroup D
0268V	0268S	0268P	Neisseria meningitidis ATCC® 35561™*	C	2	serogroup Y
0390V	0390S	0390P	Neisseria mucosa NCTC 10774	C	2	
0653V	0653S	0653P	Neisseria mucosa ATCC® 19695™*	D	2	
0131V	0131S	0131P	Neisseria mucosa ATCC® 49233™*	D	2	
0456V	0456S	0456P	Neisseria perflava ATCC® 14799™*	C	1	
0464V	0464S	0464P	Neisseria sicca ATCC® 29193™*	C	1	
0406V	0406S	0406P	Neisseria sicca ATCC® 9913™*	C	1	
Nocardia						
0866V	0866S	0866P	Nocardia brasiliensis ATCC® 19296™*	D	2	
Novosphingobium						
0206V	0206S	0206P	Novosphingobium capsulatum ATCC® 14666™*	C	1	
Ochrobactrum						
0518V	0518S	0518P	Ochrobactrum anthropi ATCC® 49687™*	C	1	
0132V	0132S	0132P	Ochrobactrum anthropi ATCC® BAA-749™*	C	1	
Oligella						
0868V	0868S	0868P	Oligella ureolytica ATCC® 43534™*	C	1	
0970V	0970S	0970P	Oligella ureolytica ATCC® 43535™*	C	1	
0621V	0621S	0621P	Oligella urethralis ATCC® 17960™*	C	2	
Paecilomyces						
0281V	0281S	0281P	Paecilomyces marquandii ATCC® 10525™*	E	1	fungus
Paenibacillus						
0473V	0473S	0473P	Paenibacillus gordonae ATCC® 29948™*	C	1	
0431V	0431S	0431P	Paenibacillus larvae subsp. larvae ATCC® 9545™*	D	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0142V	0142S	0142P	Paenibacillus macerans ATCC® 8509™*	C	1	
0228V	0228S	0228P	Paenibacillus polymyxa ATCC® 43865™*	B	1	
0296V	0296S	0296P	Paenibacillus polymyxa ATCC® 7070™*	D	1	
0883V	0883S	0883P	Paenibacillus polymyxa ATCC® 842™*	D	1	
<i>Parabacteroides</i>						
0618V	0618S	0618P	Parabacteroides distasonis ATCC® 8503™*	D	2	
0584V	0584S	0584P	Parabacteroides distasonis ATCC® BAA-1295™*	D	2	
<i>Parvimonas</i>						
0958V	0958S	0958P	Parvimonas micra ATCC® 33270™*	D	1	formerly <i>Micromonas micros</i>
<i>Pasteurella</i>						
0808V	0808S	0808P	Pasteurella aerogenes ATCC® 27883™*	C	2	
0668V	0668S	0668P	Pasteurella multocida subsp. multocida ATCC® 12945™*	C	2	
<i>Pediococcus</i>						
0259V	0259S	0259P	Pediococcus acidilactici ATCC® 8042™*	C	1	
0133V	0133S	0133P	Pediococcus damnosus ATCC® 29358™*	C	1	
<i>Penicillium</i>						
01002V	01002S	01002P	Penicillium aurantiogriseum DUMC 135.02	E	1	fungus
0794V	0794S	0794P	Penicillium aurantiogriseum ATCC® 16025™*	E	1	fungus
0178V	0178S	0178P	Penicillium chrysogenum ATCC® 10106™*	E	1	fungus
0207V	0207S	0207P	Penicillium chrysogenum ATCC® 9179™*	D	1	fungus
0535V	0535S	0535P	Penicillium variabile ATCC® 32333™*	D	1	fungus
<i>Peptoniphilus</i>						
0102V	0102S	0102P	Peptoniphilus asaccharolyticus ATCC® 14963™*	D	1	
0849V	0849S	0849P	Peptoniphilus asaccharolyticus ATCC® 29743™*	D	2	
<i>Peptostreptococcus</i>						
0322V	0322S	0322P	Peptostreptococcus anaerobius ATCC® 27337™*	D	1	
<i>Plesiomonas</i>						
0846V	0846S	0846P	Plesiomonas shigelloides ATCC® 14029™*	D	2	
0835V	0835S	0835P	Plesiomonas shigelloides ATCC® 51903™*	C	2	
<i>Porphyromonas</i>						
0912V	0912S	0912P	Porphyromonas gingivalis ATCC® 33277™*	D	2	
0600V	0600S	0600P	Porphyromonas levii ATCC® 29147™*	D	2	
<i>Prevotella</i>						
0408V	0408S	0408P	Prevotella loescheii ATCC® 15930™*	D	2	
0110V	0110S	0110P	Prevotella melaninogenica ATCC® 25845™*	D	2	
<i>Propionibacterium</i>						
0419V	0419S	0419P	Propionibacterium acnes ATCC® 11827™*	D	1	
0170V	0170S	0170P	Propionibacterium acnes ATCC® 6919™*	E	1	



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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
Proteus						
0355V	0355S	0355P	Proteus hauseri ATCC® 13315™*	B	2	
0440V	0440S	0440P	Proteus mirabilis ATCC® 12453™*	B	2	
0310V	0310S	0310P	Proteus mirabilis NCIMB 13283	D	2	
0690V	0690S	0690P	Proteus mirabilis ATCC® 25933™*	D	2	
0321V	0321S	0321P	Proteus mirabilis ATCC® 29245™*	B	2	
0190V	0190S	0190P	Proteus mirabilis ATCC® 33583™*	B	2	
0944V	0944S	0944P	Proteus mirabilis ATCC® 35659™*	D	2	
0432V	0432S	0432P	Proteus mirabilis ATCC® 43071™*	B	2	
0607V	0607S	0607P	Proteus mirabilis ATCC® 7002™*	B	2	
0300V	0300S	0300P	Proteus vulgaris ATCC® 33420™*	B	2	
0393V	0393S	0393P	Proteus vulgaris NCTC 4636	B	2	
0640V	0640S	0640P	Proteus vulgaris ATCC® 49132™*	B	2	
0459V	0459S	0459P	Proteus vulgaris ATCC® 6380™*	B	2	
0841V	0841S	0841P	Proteus vulgaris ATCC® 6896™*	B	2	
0691V	0691S	0691P	Proteus vulgaris ATCC® 8427™*	B	2	
Prototheca						
0780V	0780S	0780P	Prototheca wickerhamii ATCC® 16529™*	D	1	
Providencia						
0834V	0834S	0834P	Providencia alcalifaciens ATCC® 51902™*	B	2	
0692V	0692S	0692P	Providencia alcalifaciens ATCC® 9886™*	B	1	
0997V	0997S	0997P	Providencia rettgeri ATCC® 9250™*	B	2	
0384V	0384S	0384P	Providencia stuartii ATCC® 33672™*	C	1	
0879V	0879S	0879P	Providencia stuartii ATCC® 49809™*	C	1	
Pseudomonas						
0416V	0416S	0416P	Pseudomonas aeruginosa ATCC® 10145™*	B	2	
0830V	0830S	0830P	Pseudomonas aeruginosa NCTC 10662	C	2	
0598V	0598S	0598P	Pseudomonas aeruginosa NCIMB 12469	A	2	
0693V	0693S	0693P	Pseudomonas aeruginosa ATCC® 15442™*	C	2	Pyocyanin not produced
0199V	0199S	0199P	Pseudomonas aeruginosa ATCC® 19429™*	C	2	
0695V	0695S	0695P	Pseudomonas aeruginosa ATCC® 25619™*	C	2	
0353V	0353S	0353P	Pseudomonas aeruginosa ATCC® 27853™*	A	2	
0975V	0975S	0975P	Pseudomonas aeruginosa ATCC® 35032™*	C	2	
0182V	0182S	0182P	Pseudomonas aeruginosa ATCC® 35554™*	D	2	
0304V	0304S	0304P	Pseudomonas aeruginosa NCIMB 8295	B	2	
0576V	0576S	0576P	Pseudomonas aeruginosa NCIMB 8626	C	2	
0484V	0484S	0484P	Pseudomonas aeruginosa ATCC® 9027™*	B	2	
01009V	01009S	01009P	Pseudomonas aeruginosa ATCC® 9721™*	B	2	
01010V	01010S	01010P	Pseudomonas aeruginosa ATCC® BAA-1744™*	B	2	
0297V	0297S	0297P	Pseudomonas aeruginosa ATCC® BAA-427™*	D	2	
0241V	0241S	0241P	Pseudomonas fluorescens ATCC® 13525™*	D	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0524V	0524S	0524P	<i>Pseudomonas fluorescens</i> ATCC® 17386™*	C	1	<i>biotype G</i>
0168V	0168S	0168P	<i>Pseudomonas fluorescens</i> ATCC® 49642™*	E	1	
0880V	0880S	0880P	<i>Pseudomonas fluorescens</i> ATCC® 49838™*	C	1	
0702V	0702S	0702P	<i>Pseudomonas putida</i> ATCC® 31483™*	C	1	
0627V	0627S	0627P	<i>Pseudomonas putida</i> ATCC® 49128™*	C	1	
0162V	0162S	0162P	<i>Pseudomonas species</i> ATCC® 51821™*	D	1	
0853V	0853S	0853P	<i>Pseudomonas stutzeri</i> ATCC® 17588™*	D	1	
<i>Ralstonia</i>						
0641V	0641S	0641P	<i>Ralstonia insidiosa</i> ATCC® 49129™*	C	1	<i>formerly Ralstonia pickettii</i>
<i>Raoultella</i>						
0191V	0191S	0191P	<i>Raoultella terrigena</i> ATCC® 33257™*	C	2	
<i>Rhizopus</i>						
0208V	0208S	0208P	<i>Rhizopus stolonifer</i> (-) ATCC® 6227a™*	E	1	<i>fungus</i>
0209V	0209S	0209P	<i>Rhizopus stolonifer</i> (+) ATCC® 6227b™*	E	1	<i>fungus</i>
<i>Rhodococcus</i>						
0697V	0697S	0697P	<i>Rhodococcus equi</i> ATCC® 6939™*	D	2	<i>recommended for CAMP test for Listeria monocytogenes</i>
<i>Rhodotorula</i>						
0143V	0143S	0143P	<i>Rhodotorula mucilaginosa</i> ATCC® 66034™*	D	2	
<i>Saccharomyces</i>						
01066V	01066S	01066P	<i>Saccharomyces cerevisiae</i> ATCC® 18824™*	D	1	
0698V	0698S	0698P	<i>Saccharomyces cerevisiae</i> ATCC® 2601™*	D	1	
0534V	0534S	0534P	<i>Saccharomyces cerevisiae</i> ATCC® 4098™*	D	1	
0186V	0186S	0186P	<i>Saccharomyces cerevisiae</i> ATCC® 7754™*	D	1	
0736V	0736S	0736P	<i>Saccharomyces cerevisiae</i> NCYC 79	D	1	
0374V	0374S	0374P	<i>Saccharomyces cerevisiae</i> NCYC 853	D	1	
0900V	0900S	0900P	<i>Saccharomyces cerevisiae</i> ATCC® 9080™*	C	1	
0699V	0699S	0699P	<i>Saccharomyces cerevisiae</i> ATCC® 9763™*	D	1	
<i>Salmonella</i>						
0595V	0595S	0595P	<i>Salmonella bongori</i> ATCC® 43975™*	C	2	
0901V	0901S	0901P	<i>Salmonella enterica</i> subsp. <i>arizonae</i> ATCC® 13314™*	D	2	
01054V	01054S	01054P	<i>Salmonella enterica</i> subsp. <i>diarizonae</i> ATCC® 12325™*	C	2	<i>lactose broth positive; H2S positive</i>
01045V	01045S	01045P	<i>Salmonella enterica</i> subsp. <i>diarizonae</i> ATCC® 29934™*	C	2	<i>lactose broth positive; H2S negative</i>
0817V	0817S	0817P	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Abaetetuba</i> ATCC® 35640™*	D	2	
0826V	0826S	0826P	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Abaetetuba</i> Silliker® SLR156	C	2	
0890V	0890S	0890P	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Abony</i> NCTC 6017	C	2	<i>serovar Abony</i>

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
01056V	01056S	01056P	Salmonella enterica subsp. enterica serovar Abortusequi ATCC® 9842™*	C	2	formerly <i>Salmonella enterica</i> subsp. <i>enterica</i> Abortusequi
0346V	0346S	0346P	Salmonella enterica subsp. enterica serovar Anatum ATCC® 9270™*	C	2	group E
0902V	0902S	0902P	Salmonella enterica subsp. enterica serovar Choleraesuis ATCC® 10708™*	C	2	H2S negative
0343V	0343S	0343P	Salmonella enterica subsp. enterica serovar Choleraesuis ATCC® 7001™*	C	2	group C; H2S negative
0903V	0903S	0903P	Salmonella enterica subsp. enterica serovar Choleraesuis var Kunzendorf ATCC® 12011™*	C	2	
0345V	0345S	0345P	Salmonella enterica subsp. enterica serovar Enteritidis ATCC® 13076™*	C	2	group D
0501V	0501S	0501P	Salmonella enterica subsp. enterica serovar Infantis ATCC® 51741™*	C	2	
0341V	0341S	0341P	Salmonella enterica subsp. enterica serovar Paratyphi A ATCC® 9150™*	C	2	group A; H2S negative
0851V	0851S	0851P	Salmonella enterica subsp. enterica serovar Poona NCTC 4840	C	2	
0604V	0604S	0604P	Salmonella enterica subsp. enterica serovar Pullorum ATCC® 13036™*	B	2	
0344V	0344S	0344P	Salmonella enterica subsp. enterica serovar Tallahassee ATCC® 12002™*	C	2	
0301V	0301S	0301P	Salmonella enterica subsp. enterica serovar Typhimurium NCIMB 13284	C	2	
0421V	0421S	0421P	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	D	2	
0363V	0363S	0363P	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	C	2	
0253V	0253S	0253P	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 25241™*	C	2	
0541V	0541S	0541P	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 29629™*	C	2	H2S negative
0292V	0292S	0292P	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 49416™*	C	2	highly mutable; recommended for Ames test
0180V	0180S	0180P	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 51812™*	C	2	
0340V	0340S	0340P	Salmonella enterica subsp. enterica serovar Typhimurium NCTC 74	D	2	
0342V	0342S	0342P	Salmonella enterica subsp. enterica serovar Vellore ATCC® 15611™*	C	2	group B
Scopulariopsis						
0171V	0171S	0171P	Scopulariopsis acremonium ATCC® 58636™*	E	1	fungus
Serratia						
0838V	0838S	0838P	Serratia liquefaciens ATCC® 27592™*	C	1	
0247V	0247S	0247P	Serratia marcescens ATCC® 13880™*	D	1	
0506V	0506S	0506P	Serratia marcescens ATCC® 14041™*	C	1	pigmented
0806V	0806S	0806P	Serratia marcescens ATCC® 14756™*	D	1	pigmented
0216V	0216S	0216P	Serratia marcescens ATCC® 43861™*	C	1	
0262V	0262S	0262P	Serratia marcescens ATCC® 43862™*	C	1	

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0354V	0354S	0354P	Serratia marcescens ATCC® 8100™*	C	1	
0654V	0654S	0654P	Serratia odorifera ATCC® 33077™*	C	2	
<i>Shewanella</i>						
0638V	0638S	0638P	Shewanella haliotis ATCC® 49138™*	C	1	formerly <i>Shewanella putrefaciens</i>
0888V	0888S	0888P	Shewanella putrefaciens ATCC® 8071™*	C	1	
<i>Shigella</i>						
0349V	0349S	0349P	Shigella boydii ATCC® 9207™*	C	2	serotype 1
0356V	0356S	0356P	Shigella flexneri ATCC® 12022™*	C	2	serotype 2b
0348V	0348S	0348P	Shigella flexneri ATCC® 9199™*	C	2	serotype 1a
0705V	0705S	0705P	Shigella sonnei NCTC 12984	C	2	
0303V	0303S	0303P	Shigella sonnei ATCC® 25931™*	C	2	
0350V	0350S	0350P	Shigella sonnei ATCC® 29930™*	C	2	
0446V	0446S	0446P	Shigella sonnei ATCC® 9290™*	B	2	
<i>Sordaria</i>						
0240V	0240S	0240P	Sordaria fimicola ATCC® 14517™*	E	1	fungus
<i>Sphingobacterium</i>						
0948V	0948S	0948P	Sphingobacterium multivorum ATCC® 35656™*	C	2	
0760V	0760S	0760P	Sphingobacterium spiritivorum ATCC® 33861™*	C	2	
<i>Sphingomonas</i>						
0274V	0274S	0274P	Sphingomonas paucimobilis ATCC® 29837™*	C	2	
<i>Sporidiobolus</i>						
01013V	01013S	01013P	Sporidiobolus salmonicolor ATCC® MYA-4550™*	D	1	
<i>Staphylococcus</i>						
01065V	01065S	01065P	Staphylococcus aureus NCTC 12493	C	2	EUCAST Strain; Methicillin resistant
0831V	0831S	0831P	Staphylococcus aureus NCTC 6571	B	2	
0179V	0179S	0179P	Staphylococcus aureus ATCC® BAA-1026™*	D	2	
01007V	01007S	01007P	Staphylococcus aureus ATCC® BAA-1708™*	C	2	mupA positive by PCR
0462V	0462S	0462P	Staphylococcus aureus subsp. aureus ATCC® 11632™*	C	2	beta lactamase producer
0173V	0173S	0173P	Staphylococcus aureus subsp. aureus ATCC® 12600™*	D	2	
0312V	0312S	0312P	Staphylococcus aureus subsp. aureus NCIMB 12702	A	2	
0713V	0713S	0713P	Staphylococcus aureus subsp. aureus NCTC 12973	A	2	
0360V	0360S	0360P	Staphylococcus aureus subsp. aureus ATCC® 25923™*	A	2	
0700V	0700S	0700P	Staphylococcus aureus subsp. aureus ATCC® 27734™*	C	2	
0365V	0365S	0365P	Staphylococcus aureus subsp. aureus ATCC® 29213™*	A	2	
0906V	0906S	0906P	Staphylococcus aureus subsp. aureus ATCC® 29737™*	C	2	

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0496V	0496S	0496P	Staphylococcus aureus subsp. aureus ATCC® 33591™*	C	2	Methicillin resistant
0889V	0889S	0889P	Staphylococcus aureus subsp. aureus ATCC® 33592™*	B	2	Gentamicin and Methicillin resistant
0352V	0352S	0352P	Staphylococcus aureus subsp. aureus ATCC® 33862™*	B	2	recommended for CAMP Test
0852V	0852S	0852P	Staphylococcus aureus subsp. aureus ATCC® 43300™*	C	2	Methicillin resistant; mec A positive
0937V	0937S	0937P	Staphylococcus aureus subsp. aureus ATCC® 49476™*	D	2	
0832V	0832S	0832P	Staphylococcus aureus subsp. aureus ATCC® 51153™*	C	2	
0159V	0159S	0159P	Staphylococcus aureus subsp. aureus ATCC® 51740™*	D	2	
0827V	0827S	0827P	Staphylococcus aureus subsp. aureus ATCC® 6538P™*	C	2	
0485V	0485S	0485P	Staphylococcus aureus subsp. aureus ATCC® 6538™*	C	2	
01022V	01022S	01022P	Staphylococcus aureus subsp. aureus ATCC® 700698™*	D	2	Methicillin resistant; GRD Etest® control
0158V	0158S	0158P	Staphylococcus aureus subsp. aureus ATCC® 700699™*	D	2	Methicillin resistant; Mu50; reduced Vancomycin susceptibility
0113V	0113S	0113P	Staphylococcus aureus subsp. aureus ATCC® 9144™*	D	2	
0579V	0579S	0579P	Staphylococcus aureus subsp. aureus NCIMB 9518	C	2	
01055V	01055S	01055P	Staphylococcus aureus subsp. aureus ATCC® BAA-44™*	C	2	methicillin-resistant
0146V	0146S	0146P	Staphylococcus aureus subsp. aureus ATCC® BAA-976™*	C	2	clindamycin sensitive; D-zone test negative
0147V	0147S	0147P	Staphylococcus aureus subsp. aureus ATCC® BAA-977™*	C	2	clindamycin resistant; D-zone test positive
0533V	0533S	0533P	Staphylococcus capitis ATCC® 146™*	C	1	formerly Staphylococcus epidermidis
0963V	0963S	0963P	Staphylococcus capitis subsp. capitis ATCC® 35661™*	C	1	
0371V	0371S	0371P	Staphylococcus epidermidis ATCC® 12228™*	B	1	
0412V	0412S	0412P	Staphylococcus epidermidis ATCC® 14990™*	B	1	
0628V	0628S	0628P	Staphylococcus epidermidis ATCC® 49134™*	C	2	
0976V	0976S	0976P	Staphylococcus epidermidis ATCC® 49461™*	B	2	
01068V	01068S	01068P	Staphylococcus epidermidis ATCC® 51625™*	D	2	methicillin resistant
0155V	0155S	0155P	Staphylococcus epidermidis ATCC® 700296™*	C	1	
0571V	0571S	0571P	Staphylococcus epidermidis NCIMB 8853	B	1	
0219V	0219S	0219P	Staphylococcus gallinarum ATCC® 700401™*	C	1	
0246V	0246S	0246P	Staphylococcus haemolyticus ATCC® 29970™*	C	2	
0739V	0739S	0739P	Staphylococcus lentus ATCC® 700403™*	D	1	
0217V	0217S	0217P	Staphylococcus lugdunensis ATCC® 49576™*	B	1	
0762V	0762S	0762P	Staphylococcus lugdunensis ATCC® 700328™*	B	2	
0907V	0907S	0907P	Staphylococcus pseudintermedius ATCC® 49444™*	C	2	formerly Staphylococcus aureus subsp. aureus; recommended for CAMP test for Listeria monocytogenes

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0494V	0494S	0494P	Staphylococcus saprophyticus ATCC® 15305™*	B	1	
01035V	01035S	01035P	Staphylococcus saprophyticus ATCC® 35552™*	C	1	
0529V	0529S	0529P	Staphylococcus saprophyticus ATCC® 43867™*	C	1	
0945V	0945S	0945P	Staphylococcus saprophyticus ATCC® 49453™*	D	1	
0881V	0881S	0881P	Staphylococcus saprophyticus ATCC® 49907™*	D	1	
0134V	0134S	0134P	Staphylococcus saprophyticus ATCC® BAA-750™*	B	1	
0470V	0470S	0470P	Staphylococcus saprophyticus subsp. saprophyticus NCIMB 8711	B	2	
0460V	0460S	0460P	Staphylococcus sciuri subsp. sciuri ATCC® 29060™*	C	1	
0764V	0764S	0764P	Staphylococcus sciuri subsp. sciuri ATCC® 29061™*	D	1	
0413V	0413S	0413P	Staphylococcus simulans ATCC® 27851™*	C	2	
0238V	0238S	0238P	Staphylococcus species ATCC® 155™*	C	1	
01067V	01067S	01067P	Staphylococcus species ATCC® 27626™*	D	1	
0946V	0946S	0946P	Staphylococcus warneri ATCC® 49454™*	C	1	
0605V	0605S	0605P	Staphylococcus xylosus ATCC® 29971™*	D	2	
0797V	0797S	0797P	Staphylococcus xylosus ATCC® 35033™*	C	2	
0961V	0961S	0961P	Staphylococcus xylosus ATCC® 35663™*	D	2	
0629V	0629S	0629P	Staphylococcus xylosus ATCC® 49148™*	D	2	
0741V	0741S	0741P	Staphylococcus xylosus ATCC® 700404™*	D	1	
Stenotrophomonas						
01020V	01020S	01020P	Stenotrophomonas maltophilia ATCC® 13636™*	C	1	positive control for Etest® metallo Beta-Lactamase strip
0369V	0369S	0369P	Stenotrophomonas maltophilia ATCC® 13637™*	C	1	
0759V	0759S	0759P	Stenotrophomonas maltophilia ATCC® 17666™*	C	1	
0135V	0135S	0135P	Stenotrophomonas maltophilia ATCC® 49130™*	B	1	
0742V	0742S	0742P	Stenotrophomonas maltophilia ATCC® 51331™*	D	1	
Streptococcus						
0439V	0439S	0439P	Streptococcus agalactiae ATCC® 12386™*	C	2	group B
0104V	0104S	0104P	Streptococcus agalactiae ATCC® 12403™*	C	2	group B; type III
0370V	0370S	0370P	Streptococcus agalactiae ATCC® 13813™*	B	2	group B; nonhemolytic in absence of CAMP Factor
0436V	0436S	0436P	Streptococcus agalactiae ATCC® 27956™*	B	2	group B
0709V	0709S	0709P	Streptococcus agalactiae NCIMB 701348	B	2	group B
0480V	0480S	0480P	Streptococcus agalactiae NCTC 8017	B	2	group B
0710V	0710S	0710P	Streptococcus agalactiae NCTC 9993	C	2	group B
0105V	0105S	0105P	Streptococcus agalactiae ATCC® BAA-611™*	C	2	group B; serotype V
0389V	0389S	0389P	Streptococcus anginosus NCTC 10713	B	2	group G
0463V	0463S	0463P	Streptococcus bovis ATCC® 33317™*	C	1	
0307V	0307S	0307P	Streptococcus bovis NCIMB 700597	C	2	
0174V	0174S	0174P	Streptococcus criceti ATCC® 19642™*	D	1	formerly Streptococcus cricetus
0603V	0603S	0603P	Streptococcus dysgalactiae subsp. equisimilis ATCC® 12388™*	C	2	group C

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Individual Microorganisms

LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0602V	0602S	0602P	Streptococcus dysgalactiae subsp. equisimilis ATCC® 12394™*	C	2	group G
0967V	0967S	0967P	Streptococcus dysgalactiae subsp. equisimilis ATCC® 35666™*	C	2	group C
0373V	0373S	0373P	Streptococcus dysgalactiae subsp. equisimilis NCTC 8543	C	2	group C
0776V	0776S	0776P	Streptococcus dysgalactiae subsp. equisimilis ATCC® 9542™*	C	2	group C
0221V	0221S	0221P	Streptococcus equi subsp. equi ATCC® 33398™*	C	2	group C
0656V	0656S	0656P	Streptococcus equi subsp. equi ATCC® 9528™*	C	2	group C
0101V	0101S	0101P	Streptococcus equi subsp. zooepidemicus ATCC® 43079™*	C	2	
0743V	0743S	0743P	Streptococcus equi subsp. zooepidemicus ATCC® 700400™*	C	2	
0631V	0631S	0631P	Streptococcus gallolyticus ATCC® 49147™*	C	1	
0391V	0391S	0391P	Streptococcus gallolyticus ATCC® 9809™*	C	1	
0949V	0949S	0949P	Streptococcus gallolyticus subsp. gallolyticus ATCC® 49475™*	D	1	
0383V	0383S	0383P	Streptococcus mitis NCIMB 13770	B	2	
0423V	0423S	0423P	Streptococcus mitis ATCC® 6249™*	C	2	
0266V	0266S	0266P	Streptococcus mutans ATCC® 25175™*	C	1	
0969V	0969S	0969P	Streptococcus mutans ATCC® 35668™*	C	1	
0401V	0401S	0401P	Streptococcus parasanguinis ATCC® 15909™*	C	2	
0630V	0630S	0630P	Streptococcus pasteurianus ATCC® 49133™*	C	1	
0865V	0865S	0865P	Streptococcus pneumoniae ATCC® 10015™*	C	2	
0469V	0469S	0469P	Streptococcus pneumoniae NCIMB 13286	C	2	
0435V	0435S	0435P	Streptococcus pneumoniae ATCC® 27336™*	C	2	
0632V	0632S	0632P	Streptococcus pneumoniae ATCC® 49136™*	C	2	
0633V	0633S	0633P	Streptococcus pneumoniae ATCC® 49150™*	C	2	
0947V	0947S	0947P	Streptococcus pneumoniae ATCC® 49619™*	C	2	low level penicillin resistance by oxacillin test
0523V	0523S	0523P	Streptococcus pneumoniae ATCC® 51916™*	C	2	
0763V	0763S	0763P	Streptococcus pneumoniae ATCC® 6301™*	C	2	
0380V	0380S	0380P	Streptococcus pneumoniae ATCC® 6303™*	C	2	muroid colonies
0447V	0447S	0447P	Streptococcus pneumoniae ATCC® 6305™*	C	2	
0267V	0267S	0267P	Streptococcus pneumoniae ATCC® 700677™*	C	2	
0508V	0508S	0508P	Streptococcus pyogenes ATCC® 12344™*	C	2	group A; type 1
0979V	0979S	0979P	Streptococcus pyogenes ATCC® 12384™*	B	2	group A; type 3
0314V	0314S	0314P	Streptococcus pyogenes NCIMB 13285	B	2	group A
0385V	0385S	0385P	Streptococcus pyogenes ATCC® 19615™*	B	2	group A
0994V	0994S	0994P	Streptococcus pyogenes ATCC® 49399™*	B	2	group A
0237V	0237S	0237P	Streptococcus salivarius ATCC® 13419™*	D	1	
0858V	0858S	0858P	Streptococcus sanguinis ATCC® 10556™*	C	2	
0978V	0978S	0978P	Streptococcus species ATCC® 12392™*	D	1	group F; type 2
0864V	0864S	0864P	Streptococcus species ATCC® 12401™*	C	2	group B; type 1b

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LYFO DISK®	KWIK-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0136V	0136S	0136P	Streptococcus thermophilus ATCC® 19258™*	C	1	
0744V	0744S	0744P	Streptococcus uberis ATCC® 700407™*	D	1	
0765V	0765S	0765P	Streptococcus uberis ATCC® 9927™*	C	1	
0224V	0224S	0224P	Streptococcus vestibularis ATCC® 49124™*	C	1	
<i>Streptomyces</i>						
0859V	0859S	0859P	Streptomyces griseus subsp. griseus ATCC® 10137™*	C	1	
<i>Thermoanaerobacterium</i>						
0728V	0728S	0728P	Thermoanaerobacterium thermosaccharolyticum ATCC® 7956™*	D	1	
<i>Trichophyton</i>						
0442V	0442S	0442P	Trichophyton mentagrophytes ATCC® 9533™*	E	2	fungus
0444V	0444S	0444P	Trichophyton rubrum ATCC® 28188™*	E	2	fungus
0891V	0891S	0891P	Trichophyton tonsurans ATCC® 28942™*	E	2	fungus
<i>Trichosporon</i>						
0771V	0771S	0771P	Trichosporon mucoides ATCC® 201382™*	E	1	
0775V	0775S	0775P	Trichosporon mucoides ATCC® 201383™*	E	1	
0778V	0778S	0778P	Trichosporon mucoides ATCC® 204094™*	E	2	
<i>Ureaplasma</i>						
0151V	0151S	0151P	Ureaplasma parvum ATCC® 27813™*	E	2	formerly <i>Ureaplasma urealyticum</i>
<i>Veillonella</i>						
0867V	0867S	0867P	Veillonella parvula ATCC® 10790™*	E	1	
<i>Vibrio</i>						
0819V	0819S	0819P	Vibrio alginolyticus ATCC® 17749™*	C	1	
0720V	0720S	0720P	Vibrio furnissii NCTC 11218	C	1	
0818V	0818S	0818P	Vibrio parahaemolyticus ATCC® 17802™*	D	2	
<i>Virgibacillus</i>						
0138V	0138S	0138P	Virgibacillus pantothenicus ATCC® 14576™*	C	1	
<i>Yarrowia</i>						
0950V	0950S	0950P	Yarrowia lipolytica ATCC® 9773™*	D	1	
<i>Yersinia</i>						
0316V	0316S	0316P	Yersinia enterocolitica subsp. enterocolitica ATCC® 23715™*	C	2	biotype 1; serotype 8
0909V	0909S	0909P	Yersinia enterocolitica subsp. enterocolitica ATCC® 27729™*	C	2	biotype 1; serotype 8
0938V	0938S	0938P	Yersinia enterocolitica subsp. enterocolitica ATCC® 9610™*	D	2	biovar 1; serogroup O:8
0974V	0974S	0974P	Yersinia kristensenii ATCC® 33639™*	D	2	
0785V	0785S	0785P	Yersinia ruckeri ATCC® 29473™*	C	1	
<i>Zygosaccharomyces</i>						
01011V	01011S	01011P	Zygosaccharomyces bailii ATCC® MYA-4549™*	E	1	

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Individual Microorganisms

LYFO DISK®	Kwik-STIK™		Microorganism Description	Price Code	BSL	Comment
	10Pk	2Pk				
0803V	0803S	0803P	Zygosaccharomyces rouxii ATCC® 28253™*	E	1	
0960V	0960S	0960P	Zygosaccharomyces rouxii ATCC® 34890™*	E	1	
0255V	0255S	0255P	Zygosaccharomyces rouxii NCYC 381	E	1	

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CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
PRODUCTS FOR CEPHEID® INSTRUMENTS			
0360MSSA	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	Two KWIK-STIK™ Units at E4. For use with Cepheid® GeneXpert Systems only.
0158MRSA	Staphylococcus aureus subsp. aureus ATCC® 700699™*	2	Two KWIK-STIK™ Units at E4. For use with Cepheid® GeneXpert Systems only.
0371MSSE	Staphylococcus epidermidis ATCC® 12228™*	1	Two KWIK-STIK™ Units at E4. For use with Cepheid® GeneXpert Systems only.

Note: Additional Cepheid® Sets located on page 33.

PRODUCTS FOR ROCHE MOLECULAR DIAGNOSTICS INSTRUMENTS

0158ROCHE	Staphylococcus aureus subsp. aureus ATCC® 700699™*	2	Two KWIK-STIK™ Units at E4. For use with the LightCycler® MRSA Advanced Test from Roche Molecular Diagnostics.
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Note: BD GeneOhm™ sets are located on page 32. Cepheid® Smart GBS™ and Xpert™ sets are located on page 33.

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QC MICROORGANISM SETS

COMMERCIAL AND MISCELLANEOUS MICROORGANISM SETS

- Convenient ordering
- Refrigerated storage
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty

QC MICROORGANISM SETS PRODUCT DETAILS

Commercial Sets offered by Microbiologics® contain the manufacturer recommended quality control strains for bacterial identification systems (e.g., Vitek®) and bacterial detection products (e.g., Readycult®). Miscellaneous Sets offered by Microbiologics® include the quality control strains required by CLSI for sensitivity testing, and appropriate microorganism groupings for a wide selection of additional quality control tests. Ordering microorganisms in sets simplifies the ordering process.

Choose from three convenient packaging options:

1. LYFO DISK® (vial of 10 lyophilized pellets of each single microorganism)
2. KWIK-STIK™ 2 Pack (2 STIKS of each single microorganism)
3. KWIK-STIK™ 10 Pack (10 STIKS of each single microorganism)

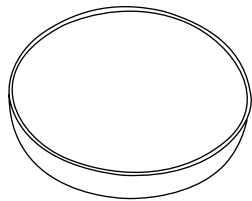
Please add the packaging option to the catalog number when placing an order:

P = KWIK STIK™ 2 Pack | S = KWIK STIK™ 10 Pack | V = LYFO DISK®

Example: 5154P, 5154S, 5154V

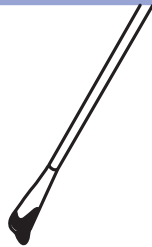
Streak Method for Colony Isolation using KWIK-STIK™ or LYFO DISK® Microorganism Preparations

1



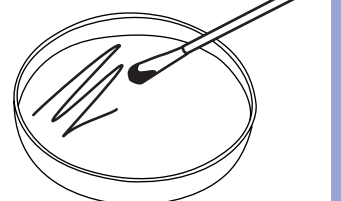
Label agar plate.

2



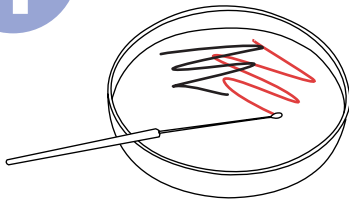
Heavily saturate swab with hydrated material from KWIK-STIK™ (see Lit.095) or LYFO DISK® (see LIT.096).

3



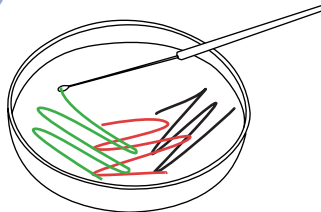
Gently roll swab back and forth across one-third of the plate.

4



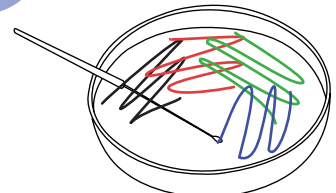
Turn plate. Streak sterile loop through edge of inoculated area 3 to 4 times into second area as pictured.

5



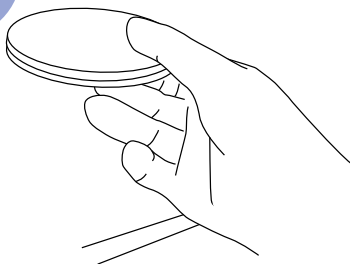
Turn plate. Streak loop through edge of second area 3 to 4 times into third area as pictured.

6



Turn plate. Streak loop through edge of second area 3 to 4 times into fourth area as pictured.

7



IMMEDIATELY incubate the inoculated primary culture plate(s).

Note: Sterilizing loop between each area will achieve maximum isolation of colonies.

Visit www.microbiologics.com or call 320.253.1640 to place your order!

CAT# Commercial Sets

5138 API®; 20 STREP III QC Set

- Streptococcus equi subsp. zooepidemicus ATCC® 700400™*
- Streptococcus uberis ATCC® 700407™*

5137 API®; 20A II Anaerobe QC Set

- Bacteroides ovatus ATCC® 8483™*
- Clostridium perfringens ATCC® 13124™*
- Clostridium sordellii ATCC® 9714™*

5104 API®; 20C AUX II QC Set

- Candida glabrata ATCC® 15126™*
- Candida guilliermondii ATCC® 6260™*
- Cryptococcus laurentii ATCC® 18803™*

5107 API®; 20E II QC Set

- Enterobacter cloacae subsp. cloacae ATCC® 13047™*
- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 35657™*
- Proteus mirabilis ATCC® 35659™*
- Stenotrophomonas maltophilia ATCC® 51331™*

5008 API®; 20NE QC Set

- Aeromonas hydrophila ATCC® 35654™*
- Alcaligenes faecalis subsp. faecalis ATCC® 35655™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Sphingobacterium multivorum ATCC® 35656™*

5175 API®; 50 CH QC Set

- Klebsiella pneumoniae subsp. pneumoniae ATCC® 35657™*
- Lactobacillus paracasei subsp. paracasei ATCC® BAA-52™*
- Paenibacillus polymyxa ATCC® 43865™*

5122 API®; 50 CHB/E Medium QC Set

- Klebsiella pneumoniae subsp. pneumoniae ATCC® 35657™*
- Paenibacillus polymyxa ATCC® 43865™*
- Providencia alcalifaciens ATCC® 9886™*

5046 API®; CORYNE QC Set

- Cellulosimicrobium cellulans ATCC® 27402™*
- Corynebacterium renale ATCC® 19412™*
- Microbacterium testaceum ATCC® 15829™*

5120 API®; ID 32 C QC Set

- Candida glabrata ATCC® 64677™*
- Cryptococcus humicola ATCC® 64676™*

CAT# Commercial Sets

5161 API®; ID 32 STAPH II QC Set

- Staphylococcus aureus subsp. aureus ATCC® 29213™*
- Staphylococcus gallinarum ATCC® 700401™*
- Staphylococcus lugdunensis ATCC® 49576™*

5139 API®; Listeria QC Set

- Listeria innocua ATCC® 33090™*
- Listeria ivanovii subsp. ivanovii ATCC® BAA-139™*
- Listeria monocytogenes (serotype 4b) ATCC® 19115™*

5135 API®; NH II QC Set

- Haemophilus influenzae ATCC® 10211™*
- Haemophilus paraphrophilus ATCC® 49917™*
- Neisseria gonorrhoeae ATCC® 31426™*

5009 API®; Rapid 20E QC Set

- Escherichia coli (serovar O1:K1:H7) ATCC® 11775™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 35657™*
- Proteus hauseri ATCC® 13315™*

5121 API®; Rapid ID 32 A QC Set

- Actinomyces viscosus ATCC® 15987™*
- Bacteroides fragilis ATCC® 23745™*
- Capnocytophaga sputigena ATCC® 33612™*
- Clostridium sordellii ATCC® 9714™*
- Clostridium sporogenes ATCC® 19404™*

5117 API®; rapid ID 32 E QC Set

- Klebsiella oxytoca ATCC® 43863™*
- Morganella morganii subsp. morganii ATCC® 25829™*
- Proteus mirabilis ATCC® 35659™*

5119 API®; rapid ID 32 STREP QC Set

- Streptococcus equi subsp. equi (group C) ATCC® 33398™*
- Streptococcus species (group B; type Ib) ATCC® 12401™*
- Streptococcus vestibularis ATCC® 49124™*

5179 API®; RAPIDEC® Staph QC Set

- Staphylococcus aureus subsp. aureus ATCC® 25923™*
- Staphylococcus saprophyticus ATCC® 43867™*

5085 API®; Slidex - Staph QC Set

- Staphylococcus aureus subsp. aureus ATCC® 25923™*
- Staphylococcus aureus subsp. aureus ATCC® 51153™*
- Staphylococcus epidermidis ATCC® 14990™*

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Microorganism Sets

CAT# Commercial Sets

5136 API®; STAPH III QC Set

- Staphylococcus capitis subsp. capitis ATCC® 35661™*
- Staphylococcus lentus ATCC® 700403™*
- Staphylococcus xylosus ATCC® 700404™*

5102 Bactrol Disks Set A QC Set

- Enterobacter cloacae subsp. cloacae ATCC® 23355™*
- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*
- Proteus hauseri ATCC® 13315™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*
- Serratia marcescens ATCC® 8100™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*
- Staphylococcus epidermidis ATCC® 12228™*
- Streptococcus pyogenes (group A) ATCC® 19615™*

5096 BBL™ Crystal™ ANR ID QC Set

- Bacteroides fragilis ATCC® 25285™*
- Fusobacterium varium ATCC® 27725™*
- Lactobacillus acidophilus ATCC® 314™*
- Parabacteroides distasonis ATCC® 8503™*
- Peptoniphilus asaccharolyticus ATCC® 29743™*

5061 BBL™ Crystal™ E/NF ID QC Set

- Acinetobacter lwoffii ATCC® 17925™*
- Enterobacter cloacae subsp. cloacae ATCC® 35030™*
- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 33495™*
- Proteus vulgaris ATCC® 8427™*
- Pseudomonas aeruginosa ATCC® 35032™*

5116 BBL™ Crystal™ Gram-Positive ID QC Set

- Brevibacillus brevis ATCC® 8246™*
- Enterococcus faecalis ATCC® 19433™*
- Staphylococcus epidermidis ATCC® 12228™*
- Staphylococcus xylosus ATCC® 35033™*
- Streptococcus pyogenes (group A) ATCC® 19615™*

5159 BBL™ Crystal™ N/H ID QC Set

- Aggregatibacter aphrophilus ATCC® 19415™*
- Haemophilus influenzae ATCC® 35056™*
- Kingella denitrificans ATCC® 33394™*
- Moraxella (Branhamella) catarrhalis ATCC® 25240™*
- Neisseria lactamica ATCC® 49142™*

CAT# Commercial Sets

5091 BBL™; Enterotube II QC Set

- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 27736™*
- Proteus mirabilis ATCC® 12453™*
- Proteus vulgaris ATCC® 6380™*
- Providencia alcalifaciens ATCC® 9886™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Serratia marcescens ATCC® 13880™*

5095 BBL™; OXI/FERM II QC Set

- Aeromonas hydrophila ATCC® 7966™*
- Plesiomonas shigelloides ATCC® 14029™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Pseudomonas aeruginosa ATCC® 10145™*

5206 BD BBL™; Cefinase (Beta Lactamase) QC Set

- Haemophilus influenzae ATCC® 10211™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*

8169 BD Diagnostics: BD GeneOhm™ Cdiff QC Sets

- Clostridium difficile ATCC® 700057™*
- Clostridium difficile ATCC® 9689™*

Two KWIK-STIK™ units. Each set contains a positive and a negative control. For use with BD Diagnostics systems only.

8167 BD Diagnostics: BD GeneOhm™ MRSA QC Set

- Staphylococcus aureus subsp. aureus ATCC® 700699™*
- Staphylococcus epidermidis ATCC® 14990™*

Two KWIK-STIK™ units. Each set contains a positive and a negative control. For use with BD Diagnostics systems only.

8168 BD Diagnostics: BD GeneOhm™ StrepB QC Set

- E5 Streptococcus species (B, lb) ATCC® 12401™*
- Streptococcus bovis ATCC® 33317™*

Two KWIK-STIK™ units. Each set contains a positive and a negative control. For use with BD Diagnostics systems only.

8170 BD Diagnostics: BD GeneOhm™ VanR QC Set

- Enterococcus casseliflavus ATCC® 25788™*
- Enterococcus faecalis ATCC® 51299™*
- Enterococcus faecium ATCC® 700221™*

Three KWIK-STIK™ Units. Each set contains two positives and one negative control. For use with BD Diagnostic systems only.

5197 BD Diagnostics: BD GeneOhm™ VanR QC Set

- Enterococcus casseliflavus ATCC® 25788™*
- Enterococcus faecalis ATCC® 51299™*
- Enterococcus faecium ATCC® 700221™*

5147 BD; Phoenix™ NMIC/ID QC Set

- Escherichia coli ATCC® 35218™*
- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 700603™*
- Pseudomonas aeruginosa ATCC® 27853™*

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CAT# Commercial Sets

5146 BD; Phoenix™ PMIC/ID QC Set

- Enterococcus faecalis ATCC® 51299™*
- Enterococcus faecalis ATCC® 29212™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*

5167 BD; Phoenix™ SMIC/ID QC Set

- Streptococcus agalactiae ATCC® 13813™*
- Streptococcus pneumoniae ATCC® 49619™*

5163 Biolog; AN Microplate QC Set

- Bifidobacterium breve ATCC® 15700™*
- Clostridium sordellii ATCC® 9714™*
- Lactobacillus casei ATCC® 393™*
- Parvimonas micra ATCC® 33270™*

5171 BIOLOG; FF Microplate QC Set

- Aspergillus niger ATCC® 16888™*
- Geotrichum candidum ATCC® 34614™*
- Penicillium chrysogenum ATCC® 10106™*

5188 Biolog; GEN III MicroPlate QC Set

- Escherichia coli (serovar O1:K1:H7) ATCC® 11775™*
- Paenibacillus polymyxa ATCC® 842™*
- Staphylococcus epidermidis ATCC® 12228™*
- Stenotrophomonas maltophilia ATCC® 13637™*

5169 BIOLOG; GN2 Microplate QC Set

- Achromobacter xylosoxidans ATCC® 27061™*
- Cedecea neteri ATCC® 33855™*
- Ochrobactrum anthropi ATCC® 49687™*
- Providencia stuartii ATCC® 33672™*

5162 BIOLOG; GP2 Microplate QC Set

- Corynebacterium minutissimum ATCC® 23348™*
- Rhodococcus equi ATCC® 6939™*
- Staphylococcus aureus subsp. aureus ATCC® 12600™*
- Streptococcus criceti ATCC® 19642™*

ATCC® 19642™ formerly Streptococcus cricetus

5170 BIOLOG; YT Microplate QC Set

- Candida albicans ATCC® 10231™*
- Candida geochares ATCC® 36852™*
- Candida kefyr ATCC® 2512™*
- Geotrichum candidum ATCC® 34614™*

CAT# Commercial Sets

8165 Cepheid®; Smart GBS™ QC Set

- E4 Streptococcus species (Group B, Ib) ATCC® 12401™*
- E5 Streptococcus species (Group B, Ib) ATCC® 12401™*
- E7 Streptococcus species (Group B, Ib) ATCC® 12401™*
- Neg Control Lactobacillus acidophilus ATCC® 4356™*

Four KWIK-STIK™ units. Each set contains a low, medium and high level of the same microorganism and one negative control. For use with Cepheid® systems only.

8171 Cepheid®; Xpert C. difficile™ QC Set

- Clostridium difficile ATCC® 9689™*
- Clostridium difficile ATCC® 700057™*

Two KWIK-STIK™ Units. Each set contains a positive and negative control. For use with Cepheid® systems only.

8164 Cepheid®; Xpert GBS™ QC Set

- E3 Streptococcus species (Group B, Ib) ATCC® 12401™*
- E5 Streptococcus species (Group B, Ib) ATCC® 12401™*
- E7 Streptococcus species (Group B, Ib) ATCC® 12401™*
- Neg Control Lactobacillus acidophilus ATCC® 4356™*

Four KWIK-STIK™ units. Each set contains a low, medium and high level of the same microorganism and one negative control. For use with Cepheid® systems only.

5181 Colitag™ QC Standard Set 1

- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*
- Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*

5183 DuPont Qualicon RiboPrinter® QC Set

- Bacillus pumilus ATCC® 700814™*
- Citrobacter braakii ATCC® 51113™*
- Enterobacter aerogenes ATCC® 13048™*
- Staphylococcus epidermidis ATCC® 14990™*

5142 E*Colite® QC Set

- Enterobacter cloacae subsp. cloacae ATCC® 35030™*
- Escherichia coli (serovar O1:K1:H7) ATCC® 11775™*

5134 Hardy; Easy 24E Plus QC Set

- Enterobacter aerogenes ATCC® 13048™*
- Escherichia coli ATCC® 25922™*
- Proteus mirabilis ATCC® 12453™*

5200 MicroScan®; Dried ESBL QC Set

- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 700603™*
- Pseudomonas aeruginosa ATCC® 27853™*

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Microorganism Sets

CAT# Commercial Sets

5062 MicroScan®; Dry Negative/Substrate & MIC QC Set

- Escherichia coli ATCC® 25922™*
- Klebsiella oxytoca ATCC® 49131™*
- Proteus vulgaris ATCC® 49132™*
- Pseudomonas aeruginosa ATCC® 27853™*

ATCC® 35218™ and ATCC® 700603™ can be purchased as separate items

5063 MicroScan®; Dry Positive/Substrate & MIC QC Set

- Enterococcus faecalis ATCC® 29212™*
- Micrococcus luteus ATCC® 49732™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*
- Staphylococcus aureus subsp. aureus ATCC® BAA-977™*
- Staphylococcus aureus subsp. aureus ATCC® 43300™*
- Streptococcus gallolyticus ATCC® 49147™*

ATCC® 35218™* and ATCC® 51299™* can be purchased as separate items

5148 MicroScan®; HNID QC Set II

- Haemophilus influenzae ATCC® 49144™*
- Haemophilus paraphrophilus ATCC® 49146™*
- Moraxella (Branhamella) catarrhalis ATCC® 49143™*
- Neisseria lactamica ATCC® 49142™*

5084 MicroScan®; Rapid Anaerobic Panel QC Set

- Bacteroides fragilis ATCC® 25285™*
- Clostridium perfringens ATCC® 13124™*
- Clostridium sordellii ATCC® 9714™*
- Finegoldia magna ATCC® 29328™*

5149 MicroScan®; Rapid Gram Negative QC Set

- Acinetobacter species ATCC® 49139™*
- Acinetobacter species ATCC® 49466™*
- Escherichia coli ATCC® 25922™*
- Klebsiella oxytoca ATCC® 49131™*
- Shewanella halotidis ATCC® 49138™*

5070 MicroScan®; Rapid Yeast Panel QC Set

- Candida albicans ATCC® 66027™*
- Candida glabrata ATCC® 66032™*
- Candida kefyr ATCC® 66028™*
- Candida tropicalis ATCC® 66029™*
- Cryptococcus albidus ATCC® 66030™*
- Cryptococcus neoformans ATCC® 66031™*
- Cryptococcus uniguttulatus ATCC® 66033™*

CAT# Commercial Sets

5165 MicroScan®; Synergies Plus - Gram Negative Panel QC Set

- Enterobacter aerogenes ATCC® 51697™*
- Enterobacter cloacae subsp. cloacae ATCC® 49141™*
- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 35218™*
- Escherichia coli ATCC® 25922™*
- Klebsiella oxytoca ATCC® 49131™*
- Proteus vulgaris ATCC® 49132™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Shewanella halotidis ATCC® 49138™*

ATCC® 700603™ can be purchased as a separate item

5208 MicroScan®; Synergies plus® - Gram Positive QC Set

- Acinetobacter species ATCC® 49139™*
- Enterococcus casseliflavus ATCC® 700327™*
- Enterococcus durans ATCC® 6056™*
- Enterococcus faecalis ATCC® 51299™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*
- Staphylococcus epidermidis ATCC® 49134™*
- Streptococcus pasteurianus ATCC® 49133™*

ATCC® 29212™*, ATCC® 49131™* and ATCC® 49138™* can be purchased as separate items

5185 MicroSEQ®; Microbial Identification System Validation Panel

- Aspergillus brasiliensis ATCC® 16404™*
- Bacillus subtilis subsp. subtilis ATCC® 6051™*
- Candida albicans ATCC® 10231™*
- Clostridium sporogenes ATCC® 3584™*
- Escherichia coli ATCC® 8739™*
- Micrococcus luteus ATCC® 10240™*
- Staphylococcus aureus subsp. aureus ATCC® 29737™*
- Staphylococcus epidermidis ATCC® 12228™*

5065 RapID™ ANA Panel QC Set

- Bacteroides uniformis ATCC® 8492™*
- Clostridium sordellii ATCC® 9714™*
- Parabacteroides distasonis ATCC® 8503™*

5066 RapID™ NH Panel QC Set

- Haemophilus influenzae (type a) ATCC® 9006™*
- Haemophilus paraphrophilus ATCC® 49146™*
- Moraxella (Branhamella) catarrhalis ATCC® 8176™*
- Oligella urethralis ATCC® 17960™*

5075 RapID™ ONE QC Set

- Enterobacter aerogenes ATCC® 13048™*
- Escherichia coli ATCC® 25922™*
- Proteus vulgaris ATCC® 6380™*
- Pseudomonas aeruginosa ATCC® 27853™*

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CAT# Commercial Sets

5077 RapID™ SS/u QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*
- Proteus mirabilis ATCC® 25933™*
- Serratia marcescens ATCC® 8100™*

5073 RapID™ STR QC Set

- Enterococcus faecalis ATCC® 29212™*
- Enterococcus hirae ATCC® 49479™*
- Streptococcus gallolyticus ATCC® 9809™*
- Streptococcus pyogenes (group A) ATCC® 19615™*

5101 RapID™; CB PLUS QC Set

- Arcanobacterium pyogenes ATCC® 19411™*
- Corynebacterium pseudodiphtheriticum ATCC® 10701™*
- Paenibacillus polymyxa ATCC® 842™*

5076 RapID™; NF PLUS QC Set

- Acinetobacter baumannii ATCC® 19606™*
- Aeromonas hydrophila ATCC® 35654™*
- Elizabethkingia meningoseptica ATCC® 13253™*
- Oligella ureolytica ATCC® 43534™*

5202 RapID™; Staph Plus QC Set

- Enterobacter aerogenes ATCC® 13048™*
- Oligella ureolytica ATCC® 43534™*
- Staphylococcus haemolyticus ATCC® 29970™*
- Staphylococcus saprophyticus ATCC® 35552™*

5071 RapID™; Yeast PLUS QC Set

- Candida albicans ATCC® 14053™*
- Candida glabrata ATCC® 2001™*
- Candida kefyr ATCC® 2512™*
- Cryptococcus laurentii ATCC® 66036™*
- Yarrowia lipolytica ATCC® 9773™*

5141 ReadyCult® Coliforms QC Set

- Citrobacter freundii ATCC® 8090™*
- Escherichia coli (serovar O1:K1:H7) ATCC® 11775™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 31488™*
- Pseudomonas aeruginosa ATCC® 10145™*
- Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*

5168 ReadyCult® Enterococci QC Set

- Enterococcus faecalis ATCC® 19433™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*

CAT# Commercial Sets

5176 SENSITITRE®; Anaerobe MIC Susceptibility QC Set

- Bacteroides fragilis ATCC® 25285™*
- Bacteroides thetaiotaomicron ATCC® 29741™*
- Eggerthella lenta ATCC® 43055™*

5177 SENSITITRE®; AQUACULTURE MIC Susceptibility QC Set

- Aeromonas salmonicida subsp. salmonicida ATCC® 33658™*
- Escherichia coli ATCC® 25922™*

5087 SENSITITRE®; Automated Gram Negative ID QC Set

- Edwardsiella tarda ATCC® 15947™*
- Klebsiella oxytoca ATCC® 8724™*
- Morganella morganii subsp. morganii ATCC® 25830™*
- Proteus vulgaris ATCC® 6896™*
- Pseudomonas aeruginosa ATCC® 10145™*
- Shigella sonnei ATCC® 25931™*

5160 SENSITITRE®; GPID ID QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Kocuria rosea ATCC® 186™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus epidermidis ATCC® 700296™*

5155 SENSITITRE®; H. influenzae/S. pneumoniae MIC Susceptibility QC Set

- Haemophilus influenzae ATCC® 49766™*
- Haemophilus influenzae ATCC® 49247™*
- Streptococcus pneumoniae ATCC® 49619™*

5088 SENSITITRE®; MIC Breakpoint QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 35218™*
- Escherichia coli ATCC® 25922™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*

5156 SENSITITRE®; MIC Susceptibility QC Set

- Enterococcus faecalis ATCC® 29212™*
- Enterococcus faecalis ATCC® 51299™*
- Escherichia coli ATCC® 25922™*
- Escherichia coli ATCC® 35218™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 700603™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® BAA-976™*
- Staphylococcus aureus subsp. aureus ATCC® BAA-977™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*

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Microorganism Sets

CAT# Commercial Sets

5178 SENSITITRE®; YeastOne QC Set

- *Candida parapsilosis* ATCC® 22019™*
- *Issatchenkia orientalis* ATCC® 6258™*

5209 Vitek 2®; CBC QC Set

- *Arcanobacterium haemolyticum* ATCC® BAA-1784™*
- *Cellulosimicrobium cellulans* ATCC® BAA-1816™*
- *Cellulosimicrobium cellulans* ATCC® BAA-1817™*
- *Corynebacterium renale* ATCC® BAA-1785™*
- *Corynebacterium urealyticum* ATCC® 43044™*
- *Curtobacterium pusillum* ATCC® 19096™*
- *Klebsiella oxytoca* ATCC® 700324™*
- *Microbacterium liquefaciens* ATCC® BAA-1819™*
- *Microbacterium paraoxydans* ATCC® BAA-1818™*
- *Microbacterium testaceum* ATCC® 15829™*
- *Ochrobactrum anthropi* ATCC® BAA-749™*

5190 Vitek® 2; ANC Comprehensive QC Set

- *Bacteroides ovatus* ATCC® BAA-1296™*
- *Bacteroides vulgatus* ATCC® 8482™*
- *Clostridium perfringens* ATCC® 13124™*
- *Clostridium septicum* ATCC® 12464™*
- *Clostridium sordellii* ATCC® 9714™*
- *Corynebacterium striatum* ATCC® BAA-1293™*
- *Parabacteroides distasonis* ATCC® BAA-1295™*

5182 Vitek® 2; ANC QC Set

- *Bacteroides ovatus* ATCC® BAA-1296™*
- *Bacteroides ovatus* ATCC® BAA-1304™*
- *Bacteroides vulgatus* ATCC® 8482™*
- *Clostridium perfringens* ATCC® 13124™*
- *Clostridium septicum* ATCC® 12464™*
- *Clostridium sordellii* ATCC® 9714™*
- *Corynebacterium striatum* ATCC® BAA-1293™*
- *Parabacteroides distasonis* ATCC® BAA-1295™*

5189 Vitek® 2; AST-GN II QC Set

- *Escherichia coli* ATCC® 25922™*
- *Escherichia coli* ATCC® 35218™*
- *Klebsiella pneumoniae* subsp. *pneumoniae* ATCC® 700603™*
- *Pseudomonas aeruginosa* ATCC® 27853™*

5111 Vitek® 2; AST-GN QC Set

- *Escherichia coli* ATCC® 25922™*
- *Escherichia coli* ATCC® 35218™*
- *Pseudomonas aeruginosa* ATCC® 27853™*

CAT# Commercial Sets

5187 Vitek® 2; AST-GP II QC Set

- *Enterococcus faecalis* ATCC® 29212™*
- *Enterococcus faecalis* ATCC® 51299™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*
- *Staphylococcus aureus* ATCC® BAA-1026™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® BAA-977™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® BAA-976™*

5112 Vitek® 2; AST-GP QC Set

- *Enterococcus faecalis* ATCC® 29212™*
- *Enterococcus faecalis* ATCC® 51299™*
- *Staphylococcus aureus* ATCC® BAA-1026™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*

5184 Vitek® 2; AST-YS QC Set

- *Candida parapsilosis* ATCC® 22019™*
- *Issatchenkia orientalis* ATCC® 6258™*

5191 Vitek® 2; BCL Comprehensive QC Set

- *Aneurinibacillus aneurinolyticus* ATCC® 11376™*
- *Bacillus badius* ATCC® 14574™*
- *Bacillus circulans* ATCC® 61™*
- *Bacillus megaterium* ATCC® 14581™*
- *Bacillus pumilus* ATCC® BAA-1434™*
- *Brevibacillus agri* ATCC® 51663™*
- *Brevibacillus laterosporus* ATCC® 64™*
- *Enterobacter aerogenes* ATCC® 13048™*
- *Paenibacillus gordonae* ATCC® 29948™*
- *Paenibacillus macerans* ATCC® 8509™*
- *Paenibacillus polymyxa* ATCC® 7070™*
- *Staphylococcus epidermidis* ATCC® 12228™*

5157 Vitek® 2; Colorimetric BCL QC Set

- *Aneurinibacillus aneurinolyticus* ATCC® 11376™*
- *Bacillus circulans* ATCC® 61™*
- *Bacillus pumilus* ATCC® BAA-1434™*
- *Brevibacillus agri* ATCC® 51663™*
- *Brevibacillus laterosporus* ATCC® 64™*
- *Paenibacillus gordonae* ATCC® 29948™*
- *Paenibacillus macerans* ATCC® 8509™*
- *Paenibacillus polymyxa* ATCC® 7070™*
- *Virgibacillus pantothenticus* ATCC® 14576™*

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CAT# Commercial Sets

5152 Vitek® 2; Colorimetric GN QC Set

- *Acinetobacter baumannii* ATCC® BAA-747™*
- *Enterobacter hormaechei* ATCC® 700323™*
- *Klebsiella oxytoca* ATCC® 700324™*
- *Ochrobactrum anthropi* ATCC® BAA-749™*
- *Proteus vulgaris* ATCC® 6380™*
- *Shigella sonnei* ATCC® 25931™*
- *Stenotrophomonas maltophilia* ATCC® 17666™*

ATCC® 700323™ formerly *Enterobacter cloacae* subsp. *Cloacae*

5151 Vitek® 2; Colorimetric GP QC Set

- *Enterococcus casseliflavus* ATCC® 700327™*
- *Kocuria kristinae* ATCC® BAA-752™*
- *Listeria monocytogenes* ATCC® BAA-751™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*
- *Staphylococcus saprophyticus* ATCC® BAA-750™*
- *Staphylococcus sciuri* subsp. *sciuri* ATCC® 29061™*
- *Streptococcus equi* subsp. *zooepidemicus* ATCC® 43079™*
- *Streptococcus thermophilus* ATCC® 19258™*

5153 Vitek® 2; Colorimetric YST QC Set

- *Candida glabrata* ATCC® MYA-2950™*
- *Candida lusitanae* ATCC® 34449™*
- *Candida utilis* ATCC® 9950™*
- *Geotrichum capitatum* ATCC® 28576™*
- *Kloeckera apiculata* var. *apis* ATCC® 32857™*
- *Prototheca wickerhamii* ATCC® 16529™*
- *Trichosporon mucoides* ATCC® 204094™*

5186 Vitek® 2; CQI QC Set

- *Candida parapsilosis* ATCC® 22019™*
- *Corynebacterium striatum* ATCC® BAA-1293™*
- *Enterobacter hormaechei* ATCC® 700323™*
- *Enterococcus faecalis* ATCC® 29212™*
- *Escherichia coli* ATCC® 25922™*
- *Haemophilus influenzae* (type c) ATCC® 9007™*
- *Pseudomonas aeruginosa* ATCC® 27853™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*
- *Streptococcus equi* subsp. *zooepidemicus* ATCC® 43079™*
- *Streptococcus pneumoniae* ATCC® 49619™*
- *Trichosporon mucoides* ATCC® 204094™*

ATCC® 700323™ formerly *Enterobacter cloacae*

CAT# Commercial Sets

5192 Vitek® 2; GN Comprehensive QC Set

- *Acinetobacter baumannii* ATCC® BAA-747™*
- *Elizabethkingia meningoseptica* ATCC® 13253™*
- *Enterobacter hormaechei* ATCC® 700323™*
- *Klebsiella oxytoca* ATCC® 700324™*
- *Ochrobactrum anthropi* ATCC® BAA-749™*
- *Proteus vulgaris* ATCC® 6380™*
- *Pseudomonas aeruginosa* ATCC® BAA-1744™*
- *Pseudomonas aeruginosa* ATCC® 9721™*
- *Shigella sonnei* ATCC® 25931™*
- *Stenotrophomonas maltophilia* ATCC® 17666™*

ATCC® 700323™ formerly *Enterobacter cloacae* subsp. *Cloacae*

5193 Vitek® 2; GP Comprehensive QC Set

- *Enterococcus casseliflavus* ATCC® 700327™*
- *Enterococcus saccharolyticus* ATCC® 43076™*
- *Kocuria kristinae* ATCC® BAA-752™*
- *Listeria monocytogenes* ATCC® BAA-751™*
- *Staphylococcus saprophyticus* ATCC® BAA-750™*
- *Staphylococcus sciuri* subsp. *sciuri* ATCC® 29061™*
- *Streptococcus equi* subsp. *zooepidemicus* ATCC® 43079™*
- *Streptococcus pneumoniae* ATCC® 49619™*
- *Streptococcus thermophilus* ATCC® 19258™*

5194 Vitek® 2; NH Comprehensive QC Set

- *Aggregatibacter aphrophilus* ATCC® 33389™*
- *Eikenella corrodens* ATCC® BAA-1152™*
- *Enterobacter aerogenes* ATCC® 13048™*
- *Haemophilus influenzae* (type c) ATCC® 9007™*
- *Neisseria gonorrhoeae* ATCC® 19424™*
- *Neisseria lactamica* ATCC® 23970™*
- *Oligella urethralis* ATCC® 17960™*
- *Paenibacillus polymyxa* ATCC® 7070™*
- *Staphylococcus epidermidis* ATCC® 12228™*

5166 Vitek® 2; NH QC Set

- *Aggregatibacter aphrophilus* ATCC® 33389™*
- *Campylobacter jejuni* subsp. *jejuni* ATCC® BAA-1153™*
- *Eikenella corrodens* ATCC® BAA-1152™*
- *Haemophilus influenzae* (type c) ATCC® 9007™*
- *Neisseria gonorrhoeae* ATCC® 19424™*
- *Neisseria lactamica* ATCC® 23970™*
- *Oligella urethralis* ATCC® 17960™*

ATCC® 33389™ formerly *Haemophilus aphrophilus*

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Microorganism Sets

CAT# Commercial Sets

5195 Vitek® 2; YST Comprehensive QC Set

- *Candida albicans* ATCC® 14053™*
- *Candida glabrata* ATCC® MYA-2950™*
- *Candida lusitanae* ATCC® 34449™*
- *Candida utilis* ATCC® 9950™*
- *Kloeckera japonica* ATCC® 58370™*
- *Oligella ureolytica* ATCC® 43534™*
- *Prototheca wickerhamii* ATCC® 16529™*
- *Sporidiobolus salmonicolor* ATCC® MYA-4550™*
- *Staphylococcus epidermidis* ATCC® 12228™*
- *Trichosporon mucoides* ATCC® 204094™*
- *Zygosaccharomyces bailii* ATCC® MYA-4549™*

5044 Vitek®; ANI QC Set

- *Bacteroides ureolyticus* ATCC® 33387™*
- *Bacteroides vulgatus* ATCC® 8482™*
- *Parabacteroides distasonis* ATCC® 8503™*
- *Parvimonas micra* ATCC® 33270™*
- *Porphyromonas gingivalis* ATCC® 33277™*
- *Propionibacterium acnes* ATCC® 11827™*

ATCC® 33270™* formerly *Micromonas micros*

5082 Vitek®; Bacillus QC Set

- *Lysinibacillus sphaericus* ATCC® 4525™*
- *Paenibacillus polymyxa* ATCC® 7070™*

ATCC® 4525™* formerly *Bacillus sphaericus*

5036 Vitek®; GNI QC Set

- *Acinetobacter baumannii* ATCC® 19606™*
- *Bordetella bronchiseptica* ATCC® 10580™*
- *Klebsiella pneumoniae* subsp. *pneumoniae* ATCC® 13883™*
- *Proteus mirabilis* ATCC® 7002™*
- *Pseudomonas aeruginosa* ATCC® 27853™*
- *Serratia odorifera* ATCC® 33077™*
- *Yersinia kristensenii* ATCC® 33639™*

5086 Vitek®; GNI+ QC Set

- *Bordetella bronchiseptica* ATCC® 10580™*
- *Burkholderia cepacia* ATCC® 25608™*
- *Klebsiella pneumoniae* subsp. *pneumoniae* ATCC® 13883™*
- *Leclercia adecarboxylata* ATCC® 23216™*
- *Plesiomonas shigelloides* ATCC® 51903™*
- *Proteus mirabilis* ATCC® 7002™*
- *Providencia alcalifaciens* ATCC® 51902™*
- *Serratia liquefaciens* ATCC® 27592™*

5115 Vitek®; GNS II QC Set

- *Enterococcus faecalis* ATCC® 29212™*
- *Escherichia coli* ATCC® 25922™*
- *Escherichia coli* ATCC® 35218™*
- *Escherichia coli* ATCC® 51446™*
- *Pseudomonas aeruginosa* ATCC® 27853™*

CAT# Commercial Sets

5038 Vitek®; GNS MIC QC Set

- *Enterococcus faecalis* ATCC® 29212™*
- *Escherichia coli* ATCC® 35218™*
- *Escherichia coli* ATCC® 25922™*
- *Pseudomonas aeruginosa* ATCC® 27853™*

5154 Vitek®; GNS, GPS, MIC II QC Set

- *Enterococcus faecalis* ATCC® 51299™*
- *Enterococcus faecalis* ATCC® 29212™*
- *Escherichia coli* ATCC® 51446™*
- *Escherichia coli* ATCC® 25922™*
- *Escherichia coli* ATCC® 35218™*
- *Pseudomonas aeruginosa* ATCC® 27853™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*

5113 Vitek®; GNS, GPS, MIC QC Set

- *Enterococcus faecalis* ATCC® 29212™*
- *Enterococcus faecalis* ATCC® 51299™*
- *Escherichia coli* ATCC® 25922™*
- *Escherichia coli* ATCC® 35218™*
- *Pseudomonas aeruginosa* ATCC® 27853™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*

5037 Vitek®; GPI QC Set

- *Enterococcus durans* ATCC® 6056™*
- *Enterococcus faecalis* ATCC® 29212™*
- *Erysipelothrix rhusiopathiae* ATCC® 19414™*
- *Staphylococcus xylosus* ATCC® 29971™*
- *Streptococcus equi* subsp. *equi* (group C) ATCC® 9528™*
- *Streptococcus gallolyticus* ATCC® 9809™*
- *Streptococcus pyogenes* (group A) ATCC® 19615™*

5093 Vitek®; GPS MIC II QC Set

- *Enterococcus faecalis* ATCC® 51299™*
- *Enterococcus faecalis* ATCC® 29212™*
- *Escherichia coli* ATCC® 35218™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*

5039 Vitek®; GPS MIC QC Set

- *Enterococcus faecalis* ATCC® 29212™*
- *Enterococcus faecalis* ATCC® 51299™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 29213™*

5081 Vitek®; NFC QC Set

- *Acinetobacter baumannii* ATCC® 19606™*
- *Aeromonas caviae* ATCC® 15468™*
- *Bordetella bronchiseptica* ATCC® 10580™*
- *Pasteurella aerogenes* ATCC® 27883™*
- *Pseudomonas aeruginosa* ATCC® 27853™*

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CAT# Commercial Sets

5042 Vitek®; NHI QC Set

- Haemophilus influenzae (type a) ATCC® 9006™*
- Haemophilus parainfluenzae ATCC® 7901™*
- Moraxella (Branhamella) catarrhalis ATCC® 25238™*
- Neisseria gonorrhoeae ATCC® 49981™*
- Neisseria lactamica ATCC® 23970™*
- Neisseria meningitidis (serogroup C) ATCC® 13102™*

5041 Vitek®; YBC QC Set

- Candida albicans ATCC® 14053™*
- Cryptococcus albidus var. albidus ATCC® 34140™*
- Cryptococcus humicola ATCC® 9949™*
- Yarrowia lipolytica ATCC® 9773™*

ATCC® 9949™ formerly *Cryptococcus humicolus*

CAT# Miscellaneous Control Sets

5126 Anaerobic Susceptibility Testing QC Set

- Bacteroides fragilis ATCC® 25285™*
- Clostridium perfringens ATCC® 13124™*

5128 Antimicrobial Sensitivity Testing QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Haemophilus influenzae ATCC® 49247™*
- Neisseria gonorrhoeae ATCC® 49226™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*
- Streptococcus pneumoniae ATCC® 49619™*

5049 Bacitracin / Hippurate / PYR Test QC Set

- Streptococcus agalactiae (group B) ATCC® 12386™*
- Streptococcus pyogenes (group A) ATCC® 19615™*

5051 Beta-Lactamase Test QC Set

- Neisseria gonorrhoeae ATCC® 31426™*
- Neisseria gonorrhoeae ATCC® 43069™*

5052 Catalase/ SXT Test QC Set

- Staphylococcus aureus subsp. aureus ATCC® 25923™*
- Streptococcus pyogenes (group A) ATCC® 19615™*

5158 Clindamycin Resistance QC Set

- Staphylococcus aureus subsp. aureus ATCC® BAA-976™*
- Staphylococcus aureus subsp. aureus ATCC® BAA-977™*

for use with Broth D-Test and Disk Induction Test

5026 CLSI (NCCLS) M22; Campylobacter Agar QC Set

- Campylobacter jejuni subsp. jejuni ATCC® 33291™*
- Escherichia coli ATCC® 25922™*

CAT# Miscellaneous Control Sets

5027 CLSI (NCCLS) M22; Chocolate Agar QC Set

- Haemophilus influenzae ATCC® 10211™*
- Neisseria gonorrhoeae ATCC® 43069™*

5028 CLSI (NCCLS) M22; Selective Media for Pathogenic Neisseria QC Set

- Neisseria gonorrhoeae ATCC® 43069™*
- Proteus mirabilis ATCC® 43071™*
- Staphylococcus epidermidis ATCC® 12228™*

5004 CLSI (NCCLS); Anaerobic Antibiotic QC Set

- Bacteroides fragilis ATCC® 25285™*
- Bacteroides thetaiotaomicron ATCC® 29741™*
- Clostridium difficile ATCC® 700057™*
- Eggerthella lenta ATCC® 43055™*

5005 CLSI (NCCLS); Beta-Lactamase, Methicillin-Penicillin Antibiotic

- Haemophilus influenzae ATCC® 49247™*
- Neisseria gonorrhoeae ATCC® 49226™*
- Staphylococcus aureus subsp. aureus ATCC® 33591™*
- Streptococcus pneumoniae ATCC® 49619™*

5003 CLSI (NCCLS); Disk Diffusion and MIC, Plus QC Set

- Enterococcus faecalis ATCC® 51299™*
- Escherichia coli ATCC® 35218™*
- Haemophilus influenzae ATCC® 49766™*
- Haemophilus influenzae ATCC® 49247™*
- Neisseria gonorrhoeae ATCC® 49226™*
- Streptococcus pneumoniae ATCC® 49619™*

5092 CLSI (NCCLS); Disk Diffusion II QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*

5001 CLSI (NCCLS); Disk Diffusion QC Set

- Escherichia coli ATCC® 35218™*
- Escherichia coli ATCC® 25922™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*

5173 CLSI (NCCLS); Fastidious Microorganism Disk Diffusion QC Set

- Haemophilus influenzae ATCC® 49247™*
- Haemophilus influenzae ATCC® 49766™*
- Neisseria gonorrhoeae ATCC® 49226™*
- Streptococcus pneumoniae ATCC® 49619™*

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Microorganism Sets

CAT# Miscellaneous Control Sets

5174 CLSI (NCCLS); Fastidious Microorganism MIC QC Set

- Haemophilus influenzae ATCC® 49766™*
- Haemophilus influenzae ATCC® 49247™*
- Streptococcus pneumoniae ATCC® 49619™*

5002 CLSI (NCCLS); MIC QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Escherichia coli ATCC® 35218™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*

5203 CLSI® M100; ESBL QC Set

- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 700603™*

5205 CLSI® M100; Modified Hodge Test QC Set

- Klebsiella pneumoniae ATCC® BAA-1705™*
- Klebsiella pneumoniae ATCC® BAA-1706™*

5204 CLSI® M100; MRSA QC Set

- Staphylococcus aureus subsp. aureus ATCC® 29213™*
- Staphylococcus aureus subsp. aureus ATCC® 43300™*

Oxacillin Resistance using Agar Dilution Method

5207 CLSI® M22; Selective Media for Pathogenic Neisseria II QC Set

- Candida albicans ATCC® 10231™*
- Neisseria gonorrhoeae ATCC® 43069™*
- Proteus mirabilis ATCC® 43071™*
- Staphylococcus epidermidis ATCC® 12228™*

5053 Coagulase Test QC Set

- Staphylococcus aureus subsp. aureus ATCC® 25923™*
- Staphylococcus epidermidis ATCC® 12228™*

5201 EUCAST; Disk Diffusion / MIC QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Haemophilus influenzae NCTC 8468
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*
- Streptococcus pneumoniae ATCC® 49619™*

5031 Genital Pathogens QC Set

- Candida albicans ATCC® 10231™*
- Gardnerella vaginalis ATCC® 14018™*
- Neisseria gonorrhoeae ATCC® 43069™*
- Streptococcus agalactiae (group B) ATCC® 12386™*

CAT# Miscellaneous Control Sets

5054 Gram Stain QC Set

- Escherichia coli ATCC® 25922™*
- Staphylococcus aureus subsp. aureus ATCC® 25923™*

5055 Indole Spot Test QC Set

- Escherichia coli ATCC® 25922™*
- Pseudomonas aeruginosa ATCC® 27853™*

5056 Novobiocin Differential Test QC Set

- Staphylococcus epidermidis ATCC® 12228™*
- Staphylococcus saprophyticus ATCC® 49453™*

5057 Optochin Differential / Bile Solubility Test QC Set

- Streptococcus gallolyticus ATCC® 49147™*
- Streptococcus pneumoniae ATCC® 6305™*

5058 Oxidase Test QC Set

- Escherichia coli ATCC® 25922™*
- Pseudomonas aeruginosa ATCC® 27853™*

5129 Preservations and Sterility Testing QC Set

- Candida albicans ATCC® 10231™*
- Escherichia coli ATCC® 8739™*
- Pseudomonas aeruginosa ATCC® 9027™*
- Staphylococcus aureus subsp. aureus ATCC® 6538™*

5125 Recommended Susceptibility Testing Control Organisms QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Pseudomonas aeruginosa ATCC® 27853™*
- Staphylococcus aureus subsp. aureus ATCC® 29213™*

5068 Salmonella Antigen QC Set

- Salmonella enterica subsp. enterica serovar Choleraesuis ATCC® 10708™*
- Salmonella enterica subsp. enterica serovar Tallahassee ATCC® 12002™*
- Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*
- Salmonella enterica subsp. enterica serovar Paratyphi A (group A;) ATCC® 9150™*
- Salmonella enterica subsp. enterica serovar Anatum (group E) ATCC® 9270™*

5078 Salt Tolerance (6.5% NaCl) Test QC Set

- Enterococcus faecalis ATCC® 29212™*
- Streptococcus gallolyticus ATCC® 9809™*

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CAT# Miscellaneous Control Sets

5132 Shigella Antigen II QC Set

- Shigella boydii (serotype 1) ATCC® 9207™*
- Shigella flexneri (serotype 2b) ATCC® 12022™*
- Shigella sonnei ATCC® 25931™*

5067 Streptococcus Antigen QC Set

- Enterococcus faecalis ATCC® 29212™*
- Streptococcus agalactiae (group B) ATCC® 12386™*
- Streptococcus dysgalactiae subsp. equisimilis (group C) ATCC® 12388™*
- Streptococcus dysgalactiae subsp. equisimilis (group G) ATCC® 12394™*
- Streptococcus pyogenes (group A) ATCC® 19615™*
- Streptococcus species (group F; type 2) ATCC® 12392™*

5074 Urease Spot Test QC Set

- Escherichia coli ATCC® 25922™*
- Proteus vulgaris ATCC® 8427™*

5030 Uropathogens QC Set

- Enterococcus faecalis ATCC® 29212™*
- Escherichia coli ATCC® 25922™*
- Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*
- Proteus mirabilis ATCC® 12453™*
- Staphylococcus epidermidis ATCC® 12228™*

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KWIK-STIK™ PLUS

TWO PASSAGE MICROORGANISMS

- Allows more subculturing
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty

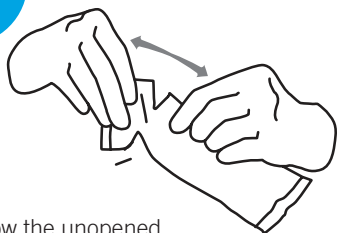
KWIK-STIK™ PLUS PRODUCT DETAILS

KWIK-STIK™ Plus microorganisms are designed to meet the needs of laboratories requiring QC microorganisms that are a limited number of passages from the reference culture. Each KWIK-STIK™ Plus microorganism preparation is just two passages from the reference culture, allowing for more subcultures. Conveniently packaged in a KWIK-STIK™ Plus device featuring a lyophilized microorganism pellet, inoculating swab and reservoir of hydrating fluid, the KWIK-STIK™ Plus is ready to use and affordable. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. KWIK-STIK™ Plus includes five STIKs of a single strain.



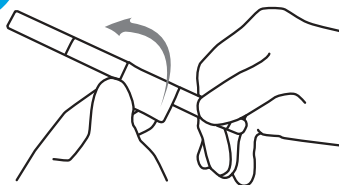
KWIK-STIK™ PLUS Instructions for Use

1



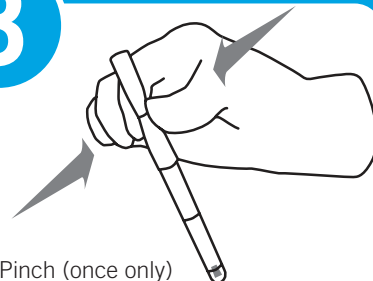
Allow the unopened KWIK-STIK™ pouch to equilibrate to room temperature. Tear open pouch at notch and remove the KWIK-STIK™ unit.

2



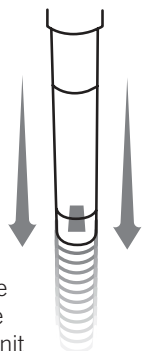
Tear off Pull-Tab portion on the label and attach it to the primary culture plate or QC record. Do not disassemble the device during hydration.

3



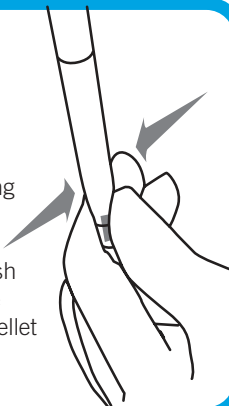
Pinch (once only) the ampoule at the top of the KWIK-STIK™ (just below the fluid meniscus of the ampoule) found in the cap to release the hydrating fluid.

4



Hold vertically and tap on a hard surface to facilitate flow of fluid through shaft into bottom of unit containing pellet. Allow the hydrating fluid to flow through the swab shaft and into the bottom portion of the unit containing the pellet.

5



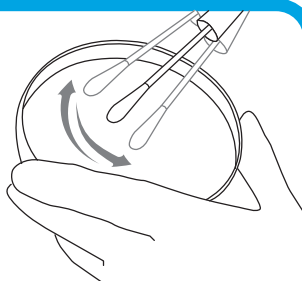
Using a pinching action on the bottom portion of the unit, crush the pellet in the fluid until the pellet suspension is homogenous.

6



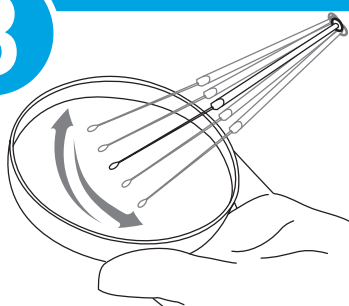
IMMEDIATELY heavily saturate the swab with the hydrated material and transfer to agar medium.

7



Inoculate the primary culture plate(s) by gently rolling the swab over one-third of the plate.

8



Using a sterile loop, streak to facilitate colony isolation.

9

Using proper biohazard disposal, discard the KWIK-STIK™.



10

IMMEDIATELY incubate the inoculated primary culture plate(s) at temperature and conditions appropriate to the microorganism.

CAT#	Product Description	BSL	Comment
0357X	Acinetobacter baumannii ATCC® 19606™*	2	
0392X	Aspergillus brasiliensis ATCC® 16404™*	1	<i>fungus</i>
0500X	Aspergillus niger ATCC® 6275™*	1	<i>fungus</i>
0198X	Bacillus cereus ATCC® 33019™*	2	
0998X	Bacillus cereus ATCC® 10876™*	1	
0812X	Bacillus licheniformis ATCC® 12759™*	1	
0258X	Bacillus pumilus ATCC® 14884™*	1	
0486X	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
0445X	Bacteroides vulgatus ATCC® 8482™*	2	
0671X	Bordetella bronchiseptica ATCC® 4617™*	2	
0805X	Brevundimonas diminuta ATCC® 19146™*	1	
0488X	Burkholderia cepacia ATCC® 25416™*	2	
0836X	Burkholderia cepacia ATCC® 25608™*	2	
0443X	Candida albicans ATCC® 10231™*	1	
0801X	Clostridium perfringens ATCC® 12915™*	2	<i>for USA shipment only</i>
0317X	Clostridium sporogenes ATCC® 19404™*	1	
0487X	Clostridium sporogenes ATCC® 11437™*	1	
0972X	Cryptococcus humicola ATCC® 9949™*	1	<i>formerly Cryptococcus humicolus</i>
0306X	Enterobacter aerogenes ATCC® 13048™*	1	
0323X	Enterobacter cloacae subsp. cloacae ATCC® 13047™*	1	
0388X	Enterobacter cloacae subsp. cloacae ATCC® 35030™*	1	
0703X	Enterobacter gergoviae ATCC® 33028™*	2	
0197X	Enterococcus faecalis ATCC® 33186™*	2	
0366X	Enterococcus faecalis ATCC® 29212™*	2	
0497X	Enterococcus faecalis ATCC® 7080™*	2	
0650X	Enterococcus hirae ATCC® 8043™*	1	
0678X	Enterococcus hirae ATCC® 10541™*	1	
0335X	Escherichia coli ATCC® 25922™*	1	
0483X	Escherichia coli ATCC® 8739™*	1	
0617X	Escherichia coli ATCC® 35150™*	2	<i>serotype O157:H7; for USA shipment only</i>
0531X	Fusarium solani ATCC® 36031™*	2	<i>fungus</i>
0871X	Geobacillus stearothermophilus ATCC® 7953™*	1	
0872X	Geobacillus stearothermophilus ATCC® 12980™*	1	
01024X	Haemophilus influenzae NCTC 8468	2	
0647X	Haemophilus influenzae ATCC® 49247™*	2	
0919X	Haemophilus influenzae ATCC® 49766™*	2	
0757X	Klebsiella oxytoca ATCC® 700324™*	2	
0351X	Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*	2	
0684X	Klebsiella pneumoniae subsp. pneumoniae ATCC® 10031™*	2	
0688X	Kocuria rhizophila ATCC® 9341™*	1	
0235X	Lactobacillus delbrueckii subsp. lactis ATCC® 7830™*	1	
0813X	Lactobacillus fermentum ATCC® 9338™*	1	
0687X	Listeria monocytogenes ATCC® 19115™*	2	<i>serotype 4b</i>

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CAT#	Product Description	BSL	Comment
0810X	Lysinibacillus sphaericus ATCC® 4525™*	1	formerly <i>Bacillus sphaericus</i>
0689X	Micrococcus luteus ATCC® 10240™*	1	
0648X	Neisseria gonorrhoeae ATCC® 49226™*	2	
0419X	Propionibacterium acnes ATCC® 11827™*	1	
0355X	Proteus hauseri ATCC® 13315™*	2	
0690X	Proteus mirabilis ATCC® 25933™*	2	
0199X	Pseudomonas aeruginosa ATCC® 19429™*	2	
0353X	Pseudomonas aeruginosa ATCC® 27853™*	2	
0484X	Pseudomonas aeruginosa ATCC® 9027™*	2	
0702X	Pseudomonas putida ATCC® 31483™*	1	
0698X	Saccharomyces cerevisiae ATCC® 2601™*	1	
0699X	Saccharomyces cerevisiae ATCC® 9763™*	1	
0363X	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	2	
0421X	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	2	
0890X	Salmonella enterica subsp. enterica serovar Abony NCTC 6017	2	serovar <i>Abony</i>
0902X	Salmonella enterica subsp. enterica serovar Choleraesuis ATCC® 10708™*	2	<i>H2S negative</i>
0247X	Serratia marcescens ATCC® 13880™*	1	
0173X	Staphylococcus aureus subsp. aureus ATCC® 12600™*	2	
0360X	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	
0485X	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	
0827X	Staphylococcus aureus subsp. aureus ATCC® 6538P™*	2	
0852X	Staphylococcus aureus subsp. aureus ATCC® 43300™*	2	<i>Methicillin resistant; mec A positive</i>
0371X	Staphylococcus epidermidis ATCC® 12228™*	1	
0605X	Staphylococcus xylosus ATCC® 29971™*	2	
0369X	Stenotrophomonas maltophilia ATCC® 13637™*	1	
0370X	Streptococcus agalactiae ATCC® 13813™*	2	<i>group B; nonhemolytic in absence of CAMP Factor</i>
0101X	Streptococcus equi subsp. zooepidemicus ATCC® 43079™*	2	
0447X	Streptococcus pneumoniae ATCC® 6305™*	2	
0947X	Streptococcus pneumoniae ATCC® 49619™*	2	<i>low level penicillin resistance by oxacillin test</i>
0385X	Streptococcus pyogenes ATCC® 19615™*	2	<i>group A</i>
0778X	Trichosporon mucoides ATCC® 204094™*	2	
0255X	Zygosaccharomyces rouxii NCYC 381	1	

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LAB-ELITE™

FOR MULTIPLE APPLICATIONS

- For use in ISO 17025 accredited labs
- Quality Control of Research
- When the exact ID of a microorganism is required
- For validation and verification of processes and instruments
- Product Warranty

CERTIFIED REFERENCE MATERIAL

- Re-authenticated
- Certificate of Analysis
- Sample Analysis Report
- Genetic Subtyping Report
- 100% Traceable
- Single Use

LAB-ELITE™ PRODUCT DETAILS

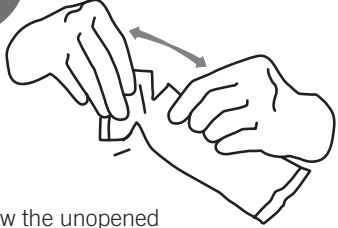
Lab-Elite™ Certified Reference Material is a pure, homogeneous and stable lyophilized microorganism preparation that has been highly characterized using a polyphasic approach. It's the only product of its kind in the market that includes a comprehensive Certificate of Analysis, Sample Analysis Report and PFGE Sub-typing Report. The Certificate of Analysis lists microscopic, macroscopic and phenotypic features as well as the authentic reference culture number. The Sample Analysis Report contains a microscopic picture and ribosomal RNA (rRNA gene) sequencing of the microorganism cells. The PFGE Report details the microorganism's DNA fingerprinting (genetic Subtyping) results.

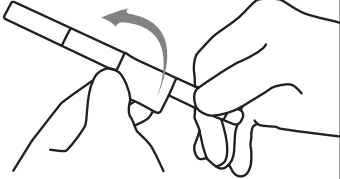
Lab-Elite™
CERTIFIED REFERENCE MATERIAL

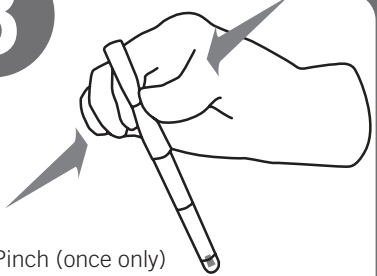
 **Microbiologics®**
A safer, healthier world.

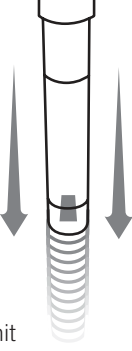
Lab-Elite™ Instructions for Use

- One self-contained device including a lyophilized microorganism pellet, reservoir of hydrating fluid and inoculating swab (KWIK-STIK™ format)
- Certificate of Analysis
- Sample Analysis Report
- Pulsed- Field Gel Electrophoresis (PFGE) Subtyping Report

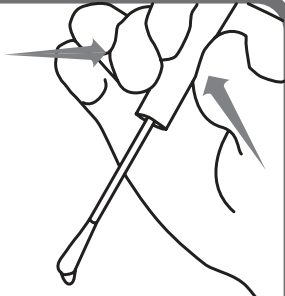
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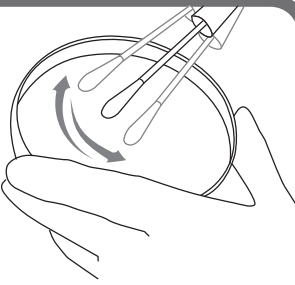
Allow the unopened KWIK-STIK™ pouch to equilibrate to room temperature. Tear open pouch at notch and remove the KWIK-STIK™ unit.
- 

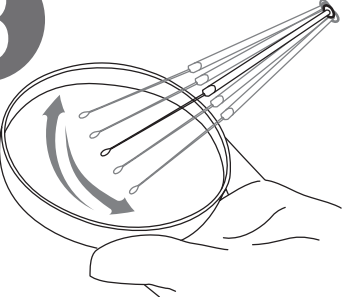
Tear off Pull-Tab portion on the label and attach it to the primary culture plate or QC record. Do not disassemble the device during hydration.
- 

Pinch (once only) the ampoule at the top of the KWIK-STIK™ (just below the fluid meniscus of the ampoule) found in the cap to release the hydrating fluid.
- 

Hold vertically and tap on a hard surface to facilitate flow of fluid through shaft into bottom of unit containing pellet. Allow the hydrating fluid to flow through the swab shaft and into the bottom portion of the unit containing the pellet.
- 

Using a pinching action on the bottom portion of the unit, crush the pellet in the fluid until the pellet suspension is homogenous.
- 

IMMEDIATELY heavily saturate the swab with the hydrated material and transfer to agar medium.
- 

Inoculate the primary culture plate(s) by gently rolling the swab over one-third of the plate.
- 

Using a sterile loop, streak to facilitate colony isolation.
- 

Using proper biohazard disposal, discard the KWIK-STIK™.
- 

IMMEDIATELY incubate the inoculated primary culture plate(s) at temperature and conditions appropriate to the microorganism.

PRODUCT DESCRIPTION	BSL	COMMENT
Aspergillus brasiliensis ATCC® 16404™*	1	<i>fungus</i>
Bacillus cereus ATCC® 10876™*	1	
Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
Candida albicans ATCC® 10231™*	1	
Clostridium perfringens ATCC® 13124™*	2	
Enterobacter aerogenes ATCC® 13048™*	1	
Enterococcus faecalis ATCC® 29212™*	2	
Escherichia coli ATCC® 8739™*	1	
Escherichia coli ATCC® 11229™*	1	
Escherichia coli ATCC® 25922™*	1	
Klebsiella pneumoniae subsp. pneumoniae ATCC® 13883™*	2	
Kocuria rhizophila ATCC® 9341™*	1	
Pseudomonas aeruginosa ATCC® 9027™*	2	
Pseudomonas aeruginosa ATCC® 27853™*	2	
Saccharomyces cerevisiae ATCC® 9763™*	1	
Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	
Staphylococcus aureus subsp. aureus ATCC® 6538P™*	2	
Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	
Staphylococcus epidermidis ATCC® 12228™*	1	
Streptococcus pyogenes ATCC® 19615™*	2	<i>group A</i>

See Website for Catalog # and current strain offering

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[illegible]

QC MICROBIOLOGY SLIDES

FOR MICROSCOPIC EXAMINATIONS

- Certificate of Performance available
- Box of 10 slides
- Product warranty



KWIK-QC™ PRODUCT DETAILS

KWIK-QC™ Slides provide the performance of QC and sample staining in a single step. Each slide has a positive and negative inoculated well and space for concurrent staining of culture isolates or clinical samples.

QC MICROBIOLOGY SLIDES PRODUCT DETAILS

Microbiology QC Slides come with one of two droplets of an air-dried and methanol-fixed or preserved organism, or a single smear containing a designated organism population.



QC MICROBIOLOGY SLIDES

KWIK-QC™ SLIDES



Visit www.microbiologics.com or call **320.253.1640** to place your order!

CAT#	PRODUCT DESCRIPTION
KWIK-QC™ SLIDES	
SL03-10 KWIK-QC™ Gram Stain Slide	POSITIVE is a derivative of ATCC® 25923™* <i>S. aureus</i> ; NEGATIVE is a derivative of ATCC® 25922™* <i>E. coli</i> . Box of 10 slides with pos/neg challenges and space for concurrent staining.
SL04-10 KWIK-QC™ GC Stain Slide	POSITIVE is a derivative of ATCC® 43069™* <i>N. gonorrhoeae</i> ; NEGATIVE is a derivative of ATCC® 60193™* <i>C. albicans</i> and a derivative of ATCC® 25923™* <i>S. aureus</i> . Box of 10 slides with pos/neg challenges and space for concurrent staining.
SL42-10 KWIK-QC™ Acid Fast Stain Slide	AFB is a derivative of ATCC® 14470™* <i>Mycobacterium gordonae</i> ; CRYPTO is <i>Cryptosporidium</i> species and intestinal bacteria. Box of 10 slides with pos/neg challenges and space for concurrent staining.
SL43-10 KWIK-QC™ Mycobacterium Slide	POSITIVE is a derivative of ATCC® 14470™* <i>Mycobacterium gordonae</i> ; NEGATIVE is a derivative of ATCC® 19414™* <i>Erysipelothrix rhusiopathiae</i> . Box of 10 slides with pos/neg challenges and space for concurrent staining.
MICROBIOLOGY QC SLIDES	
SL01-10 S. aureus and E. coli Control Slide	This quality control slide provides two air-dried and methanol-fixed droplets within two etched circles. The circle nearest the label contains a droplet of Gram-Positive <i>Staphylococcus aureus</i> a derivative of ATCC® 25923™*. The circle furthest from the label contains a droplet of a Gram-Negative <i>Escherichia coli</i> a derivative of ATCC® 25922™*.
SL10-10 Zinc PVA-Preserved Fecal Smear Control	This quality control slide provides an air-dried, Zinc PVA-preserved, fecal smear containing a representative intestinal protozoa, usually <i>Giardia lamblia</i> .
SL15-10 SAF-Preserved Fecal Smear Control	This quality control slide provides an air-dried, SAF preserved, fecal smear containing a representative intestinal protozoa, usually <i>Giardia lamblia</i> .
SL40-10 Acid Fast Control Slide	This quality control slide provides two air-dried and methanol-fixed droplets within two etched circles. The circle nearest the label contains a droplet of an Acid Fast-Positive <i>Mycobacterium gordonae</i> , a derivative of ATCC® 14470™*. The circle furthest from the label contains a droplet of an Acid Fast-Positive <i>Cryptosporidium</i> in a fecal sample and also contains Acid Fast-Negative intestinal bacteria.
SL41-10 Mycobacterium Control Slide	This quality control slide provides two air-dried and methanol-fixed droplets within two etched circles. The circle nearest the label contains an Acid Fast-Positive <i>Mycobacterium gordonae</i> , a derivative of ATCC® 14470™* and the circle furthest from the label contains an Acid Fast-Negative <i>Erysipelothrix rhusiopathiae</i> , a derivative of ATCC® 19414™*.
SL45-10 Cryptosporidium Control Slide	This quality control slide provides a single, air-dried and methanol-fixed fecal smear containing Acid Fast-Positive <i>Cryptosporidium</i> and Acid Fast-Negative intestinal bacteria.
SL50-10 FYC (Culture Isolates) Control Slide	This quality control slide provides a single, air-dried and methanol-fixed preparation containing <i>Candida albicans</i> , a derivative of ATCC® 10231™*.
SL60-10 MYC-D (Clinical Samples) Control Slide	This quality control slide provides a single, air-dried and methanol-fixed preparation containing <i>Candida albicans</i> , a derivative of ATCC® 10231™* with Leucocytes and Erythrocytes.
SL70-10 Pneumocystis carinii Control Slide	This quality control slide provides a single, air-dried and methanol-fixed non-human tissue preparation containing <i>Pneumocystis</i> .
SL75-10 Pneumocystis carinii Two-Well Control Slide	This quality control slide is Teflon coated with two 7 mm wells containing homogeneous suspensions of methanol-fixed rat lung tissue. One well contains normal rat lung tissue; the other contains rat lung heavily infected with <i>Pneumocystis carinii</i> cysts and trophs. There is a frosted area at one end for labeling use.

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KWIK-QC™ and Microbiology QC Slides

CAT#	PRODUCT DESCRIPTION
SL80-10	Microsporodidium Control Slide This quality control slide provides two air-dried and methanol-fixed droplets within two etched circles. The positive circle contains Microsporodidium species and the negative contains a budding yeast.
SL90-10	Blood Parasite Control Slide This quality control slide provides an air-dried, methanol-fixed, blood parasite smear containing Plasmodium, Babesia or Trypanosoma.

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EZ-ACCU SHOT™

FOR GROWTH PROMOTION TESTING

- Quantitative
- Instant dissolve pellet
- No pre-incubation
- Refrigerated storage
- Eight hour stability
- No dilutions required
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty

EZ-ACCU SHOT™ Product Details

EZ-Accu Shot™ is a quantitative microorganism preparation designed for performing Growth Promotion Tests of culture media with ease. Each EZ-Accu Shot™ lyophilized microorganism preparation is designed to deliver less than 100 CFU per 0.1mL of hydrated suspension as recommended by the USP/JP/Ph. Eur. With little to no preparation time required and up to eight hours of stability, EZ-Accu Shot™ adds efficiency and flexibility to QC laboratories' busy schedules. Each 1.2 mL vial of hydrated suspension offers 10 inocula. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.



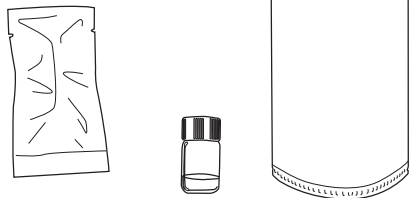
EZ-Accu Shot™ kits include:

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

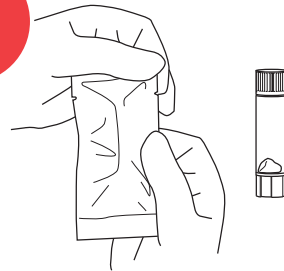
EZ-Accu Shot™ Instructions for Use

1

Remove one vial of hydrating fluid and one foil pouch containing lyophilized strain preparation (pellet) from refrigerated storage. Allow unopened vials (lyophilized strain preparation and hydrating fluid) to equilibrate to room temperature.



2



Tear open the foil pouch and remove the vial containing one lyophilized pellet.

3

Remove the cap from the pellet vial and the hydrating fluid vial. Tip one (1) pellet into the 1.2 mL vial of hydrating fluid. **ONLY ONE PELLETT MUST BE USED TO OBTAIN THE CHALLENGE CONCENTRATION OF <100 CFU PER 0.1 mL. IMMEDIATELY** recap hydrating fluid vial.



4

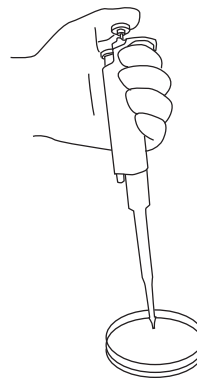
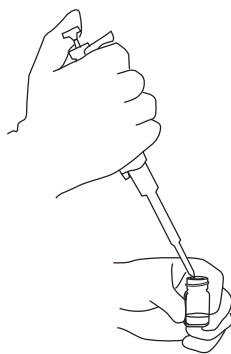
Vortex hydrated material to ensure homogenous suspension is achieved.



5

With a sterile pipette, transfer 0.1 mL of the hydrated suspension to the material being challenged (0.1 mL contains <100 CFU).

Note: Remaining suspension can be refrigerated and used for up to 8 hours.



6

Proceed with the challenge procedure according to laboratory protocol. Refrigerate suspension at 2°C- 8°C if it will be used again. Discard any remaining hydrated material in accordance with the laboratory protocol for disposal of biohazard materials.

CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
0392A	Aspergillus brasiliensis ATCC® 16404™*	1	
0998A	Bacillus cereus ATCC® 10876™*	1	
0486A	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
0443A	Candida albicans ATCC® 10231™*	1	
0487A	Clostridium sporogenes ATCC® 11437™*	1	
0317A	Clostridium sporogenes ATCC® 19404™*	1	
0366A	Enterococcus faecalis ATCC® 29212™*	2	
0483A	Escherichia coli ATCC® 8739™*	1	
0484A	Pseudomonas aeruginosa ATCC® 9027™*	2	
0421A	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	2	
0363A	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	2	
0485A	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	

*

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.



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EZ-ACCU SHOT™ SELECT

FOR GROWTH PROMOTION TESTING

- Five compendial strains. One convenient package.
- Less inventory needed
- Reduced waste
- Five individual peel-off labels (one for each strain)
- Licensed, Traceable Strains
- Instant dissolve, no pre-incubation
- No freezing required. No dry ice.
- Eight hour stability
- Product warranty



EZ-ACCU SHOT™ SELECT PRODUCT DETAILS

EZ-Accu Shot™ Select boasts all of the same features and benefits as the original EZ-Accu Shot™, but includes five compendial microorganism strains for Growth Promotion Testing in one convenient package. The EZ-Accu Shot™ Select kit contains five strains required for Growth Promotion Testing by the Pharmacopeias. Each strain is licensed and traceable to the original reference strain and comes in the form of a quantitative, instant-dissolving lyophilized pellet. EZ-Accu Shot™ Select microorganisms deliver less than 100 Colony Forming Units (CFU). For added convenience, the EZ-Accu Shot™ Select kit also contains hydration fluid and individual peel-off information labels for each of the five strains.



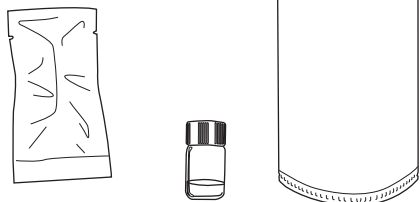
EZ-Accu Shot™ Select kits include:

- 5 different enumerated microorganism strains (1 lyophilized pellet per vial)
- 5 vials of hydrating fluid (1.2 mL in each vial)
- 5 peel-off labels, one for **each** strain

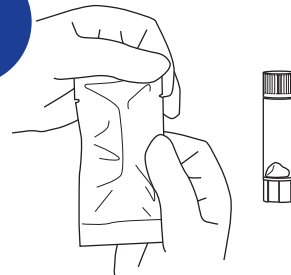
EZ-Accu Shot™ Select Instructions for Use

1

Remove one vial of hydrating fluid and one foil pouch containing lyophilized strain preparation (pellet) from refrigerated storage. Allow unopened vials (lyophilized strain preparation and hydrating fluid) to equilibrate to room temperature.



2



Tear open the foil pouch and remove the vial containing one lyophilized pellet.

3

Remove the cap from the pellet vial and the hydrating fluid vial. Tip one (1) pellet into the 1.2 mL vial of hydrating fluid. **ONLY ONE PELLETT MUST BE USED TO OBTAIN THE CHALLENGE CONCENTRATION OF <100 CFU PER 0.1 mL. IMMEDIATELY** recap hydrating fluid vial.



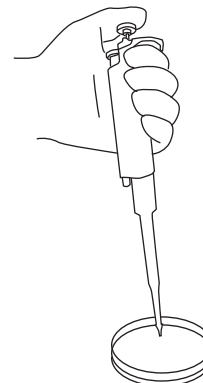
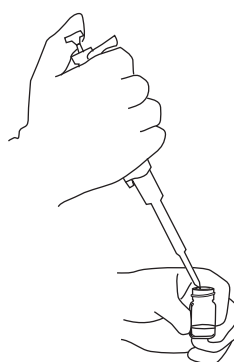
4

Vortex hydrated material to ensure homogenous suspension is achieved.



5

With a sterile pipette, transfer 0.1 mL of the hydrated suspension to the material being challenged (0.1 mL contains <100 CFU). **Note: Remaining suspension can be refrigerated and used for up to 8 hours.**



6

Proceed with the challenge procedure according to laboratory protocol. Refrigerate suspension at 2°C- 8°C if it will be used again. Discard any remaining hydrated material in accordance with the laboratory protocol for disposal of biohazard materials.

CAT# EZ-AccuShot Select

8172 EZ-Accu Shot™ Select

- *Aspergillus brasiliensis* ATCC® 16404™*
- *Bacillus subtilis* subsp. *spizizenii* ATCC® 6633™*
- *Candida albicans* ATCC® 10231™*
- *Pseudomonas aeruginosa* ATCC® 9027™*
- *Staphylococcus aureus* subsp. *aureus* ATCC® 6538™*

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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EZ-CFU™ ONE STEP

FOR GROWTH PROMOTION TESTING

- Quantitative
- Refrigerated storage
- Eight hour stability
- No dilutions required
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty



EZ-CFU™ ONE STEP PRODUCT DETAILS

The Growth Promotion Test (GPT) is an important function in the United States (USP), European (Ph. Eur.) and Japanese (JP) Pharmacopeias. EZ-CFU™ One Step quantitative microorganism preparations are used to perform Growth Promotion Tests of culture media with ease. No dilutions are required. EZ-CFU™ One Step is designed to deliver less than 100 CFU with each 0.1 mL inoculum. Each 2 mL vial of hydrated suspension offers 19 inocula. EZ-CFU™ One Step can be used for up to eight hours after hydration if the suspension is refrigerated between uses.* For added convenience, a peel-off Certificate of Assay is included for quality control documentation.

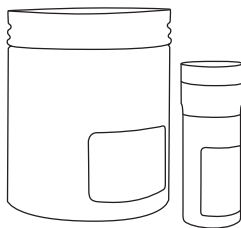
*Catalog numbers 0318Z and 0320Z are an exception to the eight hour stability and must be used within 30 minutes of hydration.

EZ-CFU™ One Step kits include:

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

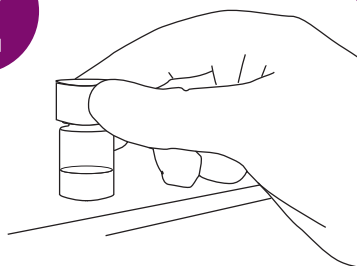
EZ-CFU™ One Step Instructions for Use

1



Remove the hydrating fluid vial and vial of lyophilized strain preparation from refrigerated storage. Allow unopened vial of lyophilized pellets to equilibrate to room temperature.

2



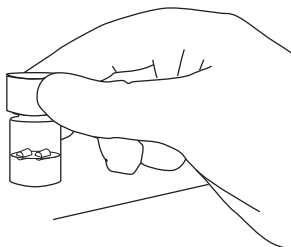
While the pellets are equilibrating, prewarm the hydrating fluid to 35°C (At least 30 minutes).

3



With a sterile forceps, transfer two (2) pellets into the 2 mL vial of hydrating fluid. (do not remove the desiccant from vial). **TWO PELLETS MUST BE USED TO OBTAIN THE CHALLENGE CONCENTRATION OF <100 CFU PER 0.1mL. IMMEDIATELY** stopper and recap the pellet vial and return the remaining lyophilized material to refrigerated storage 2°- 8°C.

4



IMMEDIATELY recap the vial with the hydrated material and place into a 34°C-38°C incubator for thirty (30) minutes to assure complete hydration.

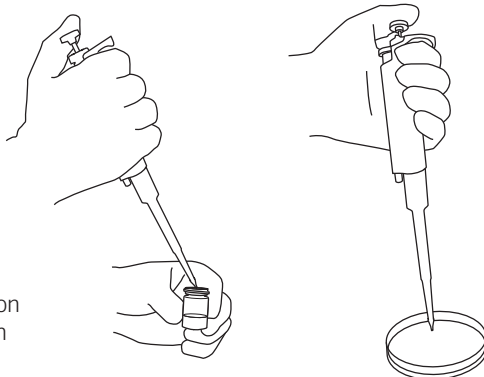
5



IMMEDIATELY following incubation, vortex the hydrated material to achieve a homogeneous suspension.

6

With a sterile pipette, transfer 0.1 mL of the hydrated suspension to the material being challenged (0.1 mL contains <100 CFU). Note: Remaining suspension can be refrigerated and used for up to 8 hours, with the exception of cat. no 0320Z and 0318Z which must be used within 30 min.



7

Proceed with the challenge procedure according to laboratory protocol. Discard any remaining hydrated material in accordance with the laboratory protocol for disposal of biohazard materials.

CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
0392Z	Aspergillus brasiliensis ATCC® 16404™*	1	
0998Z	Bacillus cereus ATCC® 10876™*	1	
0486Z	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
0582Z	Bacillus subtilis subsp. spizizenii NCIMB 8054	1	
0320Z	Bacteroides fragilis ATCC® 25285™*	2	
0805Z	Brevundimonas diminuta ATCC® 19146™*	1	
0488Z	Burkholderia cepacia ATCC® 25416™*	2	
0443Z	Candida albicans ATCC® 10231™*	1	
0332Z	Candida albicans ATCC® 14053™*	1	
0896Z	Candida albicans ATCC® 2091™*	1	
0379Z	Candida albicans NCYC 1363	1	
0318Z	Clostridium perfringens ATCC® 13124™*	2	
0487Z	Clostridium sporogenes ATCC® 11437™*	1	
0317Z	Clostridium sporogenes ATCC® 19404™*	1	
0580Z	Clostridium sporogenes NCIMB 12343	1	
0306Z	Enterobacter aerogenes ATCC® 13048™*	1	
0366Z	Enterococcus faecalis ATCC® 29212™*	2	
0497Z	Enterococcus faecalis ATCC® 7080™*	2	
0483Z	Escherichia coli ATCC® 8739™*	1	
0581Z	Escherichia coli NCIMB 8545	2	
0872Z	Geobacillus stearothermophilus ATCC® 12980™*	1	
0871Z	Geobacillus stearothermophilus ATCC® 7953™*	1	
0688Z	Kocuria rhizophila ATCC® 9341™*	1	
0813Z	Lactobacillus fermentum ATCC® 9338™*	1	
0687Z	Listeria monocytogenes ATCC® 19115™*	2	serotype 4b
0242Z	Micrococcus luteus ATCC® 4698™*	1	
0353Z	Pseudomonas aeruginosa ATCC® 27853™*	2	
0484Z	Pseudomonas aeruginosa ATCC® 9027™*	2	
0902Z	Salmonella enterica subsp. enterica serovar Choleraesuis ATCC® 10708™*	2	
0421Z	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	2	
0363Z	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	2	
0890Z	Salmonella enterica subsp. enterica serovar Abony NCTC 6017	2	serovar Abony
0360Z	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	
0827Z	Staphylococcus aureus subsp. aureus ATCC® 6538P™*	2	
0485Z	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	
0579Z	Staphylococcus aureus subsp. aureus NCIMB 9518	2	
0371Z	Staphylococcus epidermidis ATCC® 12228™*	1	
0385Z	Streptococcus pyogenes ATCC® 19615™*	2	group A

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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[illegible]

EZ-CFU™

FOR GROWTH PROMOTION TESTING

- Quantitative
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- For high volume users
- Product warranty



EZ-CFU™ PRODUCT DETAILS

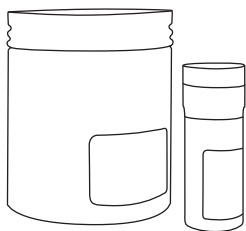
EZ-CFU™ is used to perform Growth Promotion Tests of culture media with ease. EZ-CFU™ lyophilized microorganism preparations deliver less than 100 CFU per 0.1 mL when processed as directed. A one log dilution in pH 7.2 phosphate buffer is required. Following the dilution step, EZ-CFU™ provides over 90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

EZ-CFU™ kits include:

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

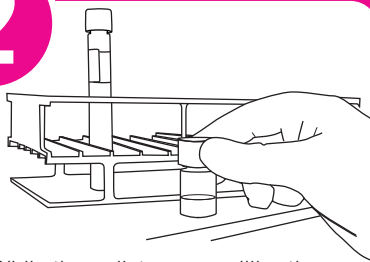
EZ-CFU™ Instructions for Use

1



Remove the hydrating fluid vial and vial of lyophilized strain preparation from refrigerated storage. Allow unopened vial of lyophilized pellets to equilibrate to room temperature.

2



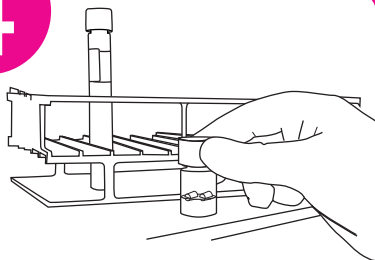
While the pellets are equilibrating, prewarm the hydrating fluid and a 9 mL tube of Phosphate buffer pH 7.2 to 34°C-38°C (Approximately 30 minutes).

3



With a sterile forceps, transfer two (2) pellets into the 2 mL vial of hydrating fluid. (do not remove the desiccant from vial). **TWO PELLETS MUST BE USED TO OBTAIN THE CHALLENGE CONCENTRATION OF <100 CFU PER 0.1mL. IMMEDIATELY** stopper and recap the pellet vial and return the remaining lyophilized material to refrigerated storage 2°- 8°C.

4



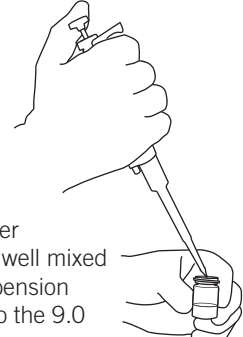
IMMEDIATELY recap the vial with the hydrated material and place into a 34°C-38°C incubator for thirty (30) minutes to assure complete hydration.

5



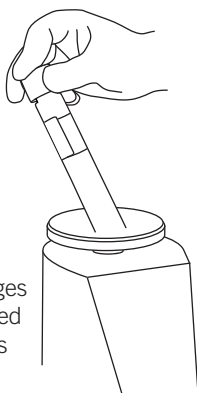
IMMEDIATELY following incubation, vortex the hydrated material to achieve a homogeneous suspension.

6



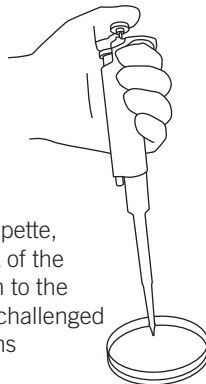
With a sterile pipette, transfer 1.0 mL of the well mixed hydrated suspension and transfer to the 9.0 mL of pH 7.2 Phosphate buffer tube.

7



Vortex working dilution well.
Note: All challenges must be completed within 30 minutes after incubation.

8



With a sterile pipette, transfer 0.1 mL of the working dilution to the material being challenged (0.1 mL contains <100 CFU).

9

Proceed with the challenge procedure according to laboratory protocol.

CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
0392C	Aspergillus brasiliensis ATCC® 16404™*	1	
0998C	Bacillus cereus ATCC® 10876™*	1	
0486C	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
0445C	Bacteroides vulgatus ATCC® 8482™*	2	
0443C	Candida albicans ATCC® 10231™*	1	
0896C	Candida albicans ATCC® 2091™*	1	
0487C	Clostridium sporogenes ATCC® 11437™*	1	
0317C	Clostridium sporogenes ATCC® 19404™*	1	
0306C	Enterobacter aerogenes ATCC® 13048™*	1	
0366C	Enterococcus faecalis ATCC® 29212™*	2	
0497C	Enterococcus faecalis ATCC® 7080™*	2	
0335C	Escherichia coli ATCC® 25922™*	1	
0483C	Escherichia coli ATCC® 8739™*	1	
0872C	Geobacillus stearothermophilus ATCC® 12980™*	1	
0871C	Geobacillus stearothermophilus ATCC® 7953™*	1	
0688C	Kocuria rhizophila ATCC® 9341™*	1	
0813C	Lactobacillus fermentum ATCC® 9338™*	1	
0687C	Listeria monocytogenes ATCC® 19115™*	2	serotype 4b
0353C	Pseudomonas aeruginosa ATCC® 27853™*	2	
0524C	Pseudomonas fluorescens ATCC® 17386™*	1	biotype G
0902C	Salmonella enterica subsp. enterica serovar Choleraesuis ATCC® 10708™*	2	
0421C	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	2	
0363C	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	2	
0890C	Salmonella enterica subsp. enterica serovar Abony NCTC 6017	2	serovar Abony
0360C	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	
0827C	Staphylococcus aureus subsp. aureus ATCC® 6538P™*	2	
0485C	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	
0371C	Staphylococcus epidermidis ATCC® 12228™*	1	
0385C	Streptococcus pyogenes ATCC® 19615™*	2	group A

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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EZ-PEC™

FOR ANTIMICROBIAL EFFECTIVENESS AND PRESERVATIVE EFFICACY TESTING

- Quantitative
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty



EZ-PEC™ PRODUCT DETAILS

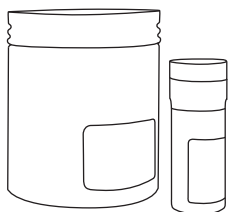
Antimicrobial Effectiveness and Preservative Efficacy Testing are a critical element to the development of safe and effective Cosmetic and Pharmaceutical products. Ready to use EZ-PEC™ quantitative microorganism preparations are designed to provide the required microorganism challenge concentrations for Antimicrobial Effectiveness Tests and Preservative Efficacy Tests. When processed as directed, EZ-PEC™ delivers a final concentration of 10^5 to 10^6 CFU per mL of the product being tested. For added convenience, a peel-off Certificate of Assay is included for quality control documentation.

EZ-PEC™ Kits include:

- 20 lyophilized pellets of a single enumerated strain
- 10 vials of hydrating fluid (2 mL in each vial)
- Peel-Off Certificate of Assay

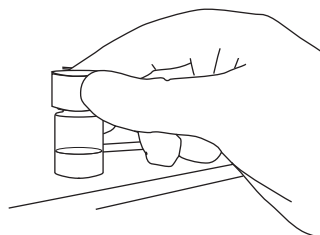
EZ-PEC™ Instructions for Use

1



Remove the hydrating fluid vial and vial of lyophilized pellets from refrigerated storage. (2°C to 8°C). Allow unopened vial of lyophilized pellets to equilibrate to room temperature.

2



While the pellets are equilibrating, use an incubator to prewarm the hydrating fluid vial and dilution fluids (if needed) to 34°C- 38°C. (Approximately 30 minutes).

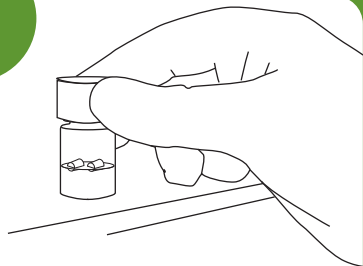
3



With a sterile forceps, transfer two (2) pellets into the 2 mL vial of hydrating fluid. (do not remove the desiccant from vial). **TWO PELLETS MUST BE USED.**

IMMEDIATELY stopper and recap the pellet vial and return the remaining lyophilized material to refrigerated storage 2°C- 8°C.

4



IMMEDIATELY recap the vial with the hydrated material and place into a 34°C- 38°C incubator for thirty (30) minutes to assure complete hydration.

5



IMMEDIATELY following incubation, vortex the hydrated material to achieve a homogeneous suspension.

6



With a sterile pipette, transfer the appropriate volume of the hydrated suspension to the material to be challenged. A 0.5% or 1.0% addition will provide a challenge of 1.0E+05 - 1.0E+06 CFU per mL of product.

7

Proceed with the challenge procedure according to laboratory protocol.

Note: All challenges must be completed within 30 minutes after incubation.

CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
0486-PEC	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
0379-PEC	Candida albicans NCYC 1363	1	
0443-PEC	Candida albicans ATCC® 10231™*	1	
0483-PEC	Escherichia coli ATCC® 8739™*	1	
0581-PEC	Escherichia coli NCIMB 8545	2	
0484-PEC	Pseudomonas aeruginosa ATCC® 9027™*	2	
0485-PEC	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	
0579-PEC	Staphylococcus aureus NCIMB 9518	2	

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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[illegible]

EPOWER™

FOR MULTIPLE APPLICATIONS

- Quantitative
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty



EPOWER™ PRODUCT DETAILS

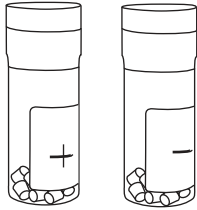
Epower™ microorganisms can be used to perform many essential quality control functions including microbial detection and enumeration, equipment calibration, method validation, bioburden determination, and lethality testing. Available in concentrations ranging from 10^2 to 10^8 CFU per pellet, Epower™ lyophilized microorganism preparations are extremely versatile. Epower™ pellets can be used individually or several Epower™ pellets can be combined for a mixed microorganism population challenge. They can also be manipulated to deliver a wide variety of concentrations. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. Epower™ is packaged in a vial containing 10 pellets of a single quantitative microorganism strain.

Epower™ can be used for multiple applications and specifications including:

- Applications requiring a specific CFU range
- Equipment calibration
- Bioburden determination
- Lethality testing
- Microbial detection & enumeration
- Method validation
- Water testing
- Internal proficiency

Instructions for performing water testing with E3 Epower™ microorganisms using Membrane Filtration Method

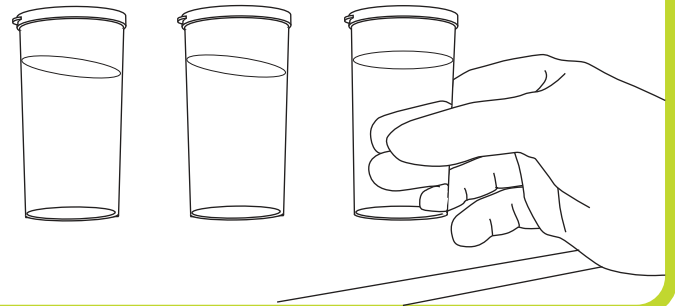
1



Remove the vials of lyophilized pellets from refrigerated storage (2°C to 8°C). Allow unopened vial of lyophilized pellets (positive and negative controls) to equilibrate to room temperature.

2

While the pellets are equilibrating, pre-warm three 99 mL phosphate buffer or sterile water blanks to 34°C-38°C. (Approximately 1 hour).

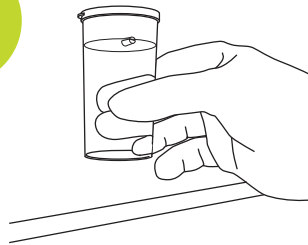


3



With a sterile forceps, transfer one pellet of the positive control to one of the blanks and one pellet of the negative control to another blank. Label appropriately. Do not remove the desiccants. Immediately stopper and recap the vials.

4



IMMEDIATELY place the microorganism suspension into a 34°C-38°C incubator for thirty (30) minutes to assure complete hydration.

5



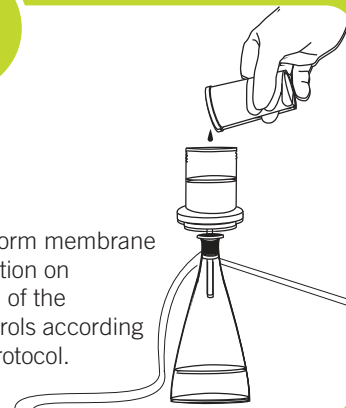
IMMEDIATELY following incubation, vortex or thoroughly mix the hydrated material to achieve a homogenous suspension and equal distribution of the challenge strain throughout the hydrated suspension. The negative control is ready to be filtered.

6



Using a sterile pipet, transfer 1.0 mL from the positive control to the remaining blank. Mix. The diluted sample will be used for membrane filtration.

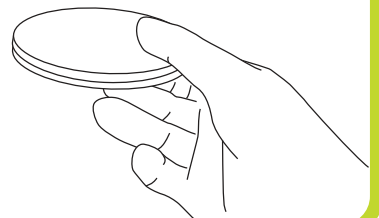
7



Perform membrane filtration on both of the controls according to protocol.

8

Transfer the filter to an agar plate. Incubate according to testing SOP. Recovery of the positive control will be 10 -100 CFU on non-selective agar. There will be no recovery of the negative control.



CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
0392E3	Aspergillus brasiliensis ATCC® 16404™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0392E6	Aspergillus brasiliensis ATCC® 16404™*	1	Mean Assay Value: 1.0-9.9E+06 CFU per pellet
0998E3	Bacillus cereus ATCC® 10876™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0330E3	Bacillus cereus NCIMB 7464	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0486E3	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0486E4	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0486E6	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	Mean Assay Value: 1.0-9.9E+06 CFU per pellet
0175E7	Bifidobacterium breve ATCC® 15700™*	1	
0443E3	Candida albicans ATCC® 10231™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0443E7	Candida albicans ATCC® 10231™*	1	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0318E3	Clostridium perfringens ATCC® 13124™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0487E3	Clostridium sporogenes ATCC® 11437™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0317E3	Clostridium sporogenes ATCC® 19404™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0756E3	Cronobacter muytjensii ATCC® 51329™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0306E3	Enterobacter aerogenes ATCC® 13048™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0597E3	Enterobacter aerogenes NCIMB 10102	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0388E8	Enterobacter cloacae subsp. cloacae ATCC® 35030™*	1	Mean Assay Value: 1.0-9.9E+08 CFU per pellet
0497E3	Enterococcus faecalis ATCC® 7080™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0366E3	Enterococcus faecalis ATCC® 29212™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0366E7	Enterococcus faecalis ATCC® 29212™*	2	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0483E3	Escherichia coli ATCC® 8739™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0483E7	Escherichia coli ATCC® 8739™*	1	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0335E3	Escherichia coli ATCC® 25922™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0495E3	Escherichia coli ATCC® 35218™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0795E2	Escherichia coli ATCC® 43888™*	2	serotype O157:H7; for USA shipment only; does not produce Shiga-Like Toxin I or II; Mean Assay Value: 1.0-9.9E+02 CFU per pellet
0795E3	Escherichia coli ATCC® 43888™*	2	serotype O157:H7; for USA shipment only; does not produce Shiga-Like Toxin I or II; Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0791E3	Escherichia coli ATCC® 51813™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0791E4	Escherichia coli ATCC® 51813™*	1	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0871E3	Geobacillus stearothermophilus ATCC® 7953™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0684E7	Klebsiella pneumoniae subsp. pneumoniae ATCC® 10031™*	2	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0688E3	Kocuria rhizophila ATCC® 9341™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0688E4	Kocuria rhizophila ATCC® 9341™*	1	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0813E3	Lactobacillus fermentum ATCC® 9338™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0814E2	Listeria innocua ATCC® 33090™*	1	serotype 6a; Mean Assay Value: 1.0-9.9E+02 CFU per pellet
0414E3	Listeria innocua NCTC 11288	1	serotype 6a; Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0277E3	Listeria monocytogenes ATCC® 19111™*	2	serotype 1

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
0687E2	Listeria monocytogenes ATCC® 19115™*	2	serotype 4b; Mean Assay Value: 1.0-9.9E+02 CFU per pellet
0687E3	Listeria monocytogenes ATCC® 19115™*	2	serotype 4b; Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0129E3	Listeria monocytogenes ATCC® 13932™*	2	serotype 4b; Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0308E3	Listeria monocytogenes NCIMB 13726	2	serotype 4b; Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0794E3	Penicillium aurantiogriseum ATCC® 16025™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0484E7	Pseudomonas aeruginosa ATCC® 9027™*	2	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0693E3	Pseudomonas aeruginosa ATCC® 15442™*	2	Pyocyanin not produced; Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0353E3	Pseudomonas aeruginosa ATCC® 27853™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0353E6	Pseudomonas aeruginosa ATCC® 27853™*	2	Mean Assay Value: 1.0-9.9E+06 CFU per pellet
0576E4	Pseudomonas aeruginosa NCIMB 8626	2	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0698E3	Saccharomyces cerevisiae ATCC® 2601™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0817E2	Salmonella enterica subsp. enterica serovar Abaetetuba ATCC® 35640™*	2	Mean Assay Value: 1.0-9.9E+02 CFU per pellet
0421E3	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0421E7	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 13311™*	2	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0363E3	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0363E4	Salmonella enterica subsp. enterica serovar Typhimurium ATCC® 14028™*	2	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0890E7	Salmonella enterica subsp. enterica serovar Abony NCTC 6017	2	serovar Abony; Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0485E3	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0485E7	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	Mean Assay Value: 1.0-9.9E+07 CFU per pellet
0827E3	Staphylococcus aureus subsp. aureus ATCC® 6538P™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0360E3	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0360E4	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0158E4	Staphylococcus aureus subsp. aureus ATCC® 700699™*	2	Methicillin resistant; Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0312E3	Staphylococcus aureus subsp. aureus NCIMB 12702	2	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0312E4	Staphylococcus aureus subsp. aureus NCIMB 12702	2	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0371E3	Staphylococcus epidermidis ATCC® 12228™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet
0371E4	Staphylococcus epidermidis ATCC® 12228™*	1	Mean Assay Value: 1.0-9.9E+04 CFU per pellet
0371E8	Staphylococcus epidermidis ATCC® 12228™*	1	Mean Assay Value: 1.0-9.9E+08 CFU per pellet
0803E3	Zygosaccharomyces rouxii ATCC® 28253™*	1	Mean Assay Value: 1.0-9.9E+03 CFU per pellet

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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EZ-FPC™

DAILY PROCESS CONTROL SAMPLES

- Qualitative or Quantitative preparations available
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty

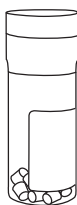


EZ-FPC™ PRODUCT DETAILS

Food process controls provide the dependability and reliability that food testing laboratories need to meet the requirements of their quality assurance programs and ensure the health of consumers. EZ-FPC™ lyophilized microorganism preparations are used as daily process controls for qualitative and quantitative detection methods. Qualitative EZ-FPC™ microorganism preparations provide a guaranteed concentration of 10^2 CFU per pellet. Quantitative EZ-FPC™ microorganism preparations provide a guaranteed concentration of 10^3 CFU per pellet. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. EZ-FPC™ is packaged in a vial of 10 pellets of a single microorganism strain.

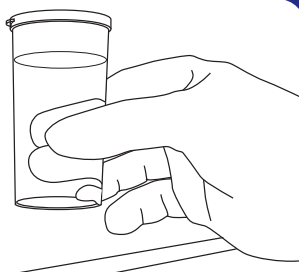
EZ-FPC™ Instructions for Use

1



Remove the vial of lyophilized pellets from refrigerated storage (2°C - 8°C). Allow unopened vial to equilibrate to room temperature.

2



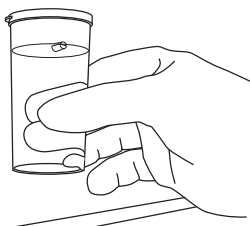
While the pellets are equilibrating, use an incubator to prewarm dilution fluid to 34°C-38°C. (At least 30 minutes).

3



With sterile forceps, transfer one (1) pellet into the dilution fluid (do not remove the desiccant from vial). **IMMEDIATELY** stopper and recap the pellet vial and return the remaining lyophilized material to refrigerated storage 2°C - 8°C.

4



IMMEDIATELY place the microorganism suspension into a 34°C-38°C incubator for thirty (30) minutes to assure complete hydration

5



Mix hydrated material until a homogeneous suspension is achieved.

6

Quantitative Process Control: Proceed with the quantitative testing procedure as set forth in the laboratory SOP. Provide performance documentation by recording the test results.

Qualitative Process Control: Proceed with qualitative testing procedure as set forth in laboratory SOP. Provide performance documentation by recording the test results.

Note: All quantitative challenges must be completed within 30 minutes after incubation.

CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
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QUALITATIVE PREPARATIONS AT A CONCENTRATION OF 1.0E+02 - 9.9E+02 CFU PER PELLET

0617FPC	Escherichia coli ATCC® 35150™*	2	serotype O157:H7; for USA shipment only
0795FPC	Escherichia coli ATCC® 43888™*	2	serotype O157:H7; for USA shipment only
0814FPC	Listeria innocua ATCC® 33090™*	1	
0687FPC	Listeria monocytogenes ATCC® 19115™*	2	serotype 4b
0254FPC	Listeria monocytogenes Cornell University SLR2249	2	Act A gene removed
0595FPC	Salmonella bongori ATCC® 43975™*	2	
0817FPC	Salmonella enterica subsp. enterica serovar Abaetetuba ATCC® 35640™*	2	
0826FPC	Salmonella enterica subsp. enterica serovar Abaetetuba Silliker® SLR156	2	

QUANTITATIVE PREPARATIONS AT A CONCENTRATION OF 1.0E+03 - 9.9E+03 CFU PER PELLET

0265FPC	Alicyclobacillus acidoterrestris ATCC® 49025™*	1	
0260FPC	Arthrobacter psychrolactophilus ATCC® 700733™*	1	
0392FPC	Aspergillus brasiliensis ATCC® 16404™*	1	
0998FPC	Bacillus cereus ATCC® 10876™*	1	
0330FPC	Bacillus cereus NCIMB 7464	2	
0674FPC	Clostridium perfringens ATCC® 12919™*	2	for USA shipment only
0756FPC	Cronobacter muytjensii ATCC® 51329™*	1	
0306FPC	Enterobacter aerogenes ATCC® 13048™*	1	
0597FPC	Enterobacter aerogenes NCIMB 10102	2	
0497FPC	Enterococcus faecalis ATCC® 7080™*	2	
0791FPC	Escherichia coli ATCC® 51813™*	1	
0813FPC	Lactobacillus fermentum ATCC® 9338™*	1	
0989FPC	Lactobacillus rhamnosus ATCC® 9595™*	1	
0794FPC	Penicillium aurantiogriseum ATCC® 16025™*	1	
0693FPC	Pseudomonas aeruginosa ATCC® 15442™*	2	Pyocyanin not produced
0698FPC	Saccharomyces cerevisiae ATCC® 2601™*	1	
0360FPC	Staphylococcus aureus subsp. aureus ATCC® 25923™*	2	
0485FPC	Staphylococcus aureus subsp. aureus ATCC® 6538™*	2	
0803FPC	Zygosaccharomyces rouxii ATCC® 28253™*	1	

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

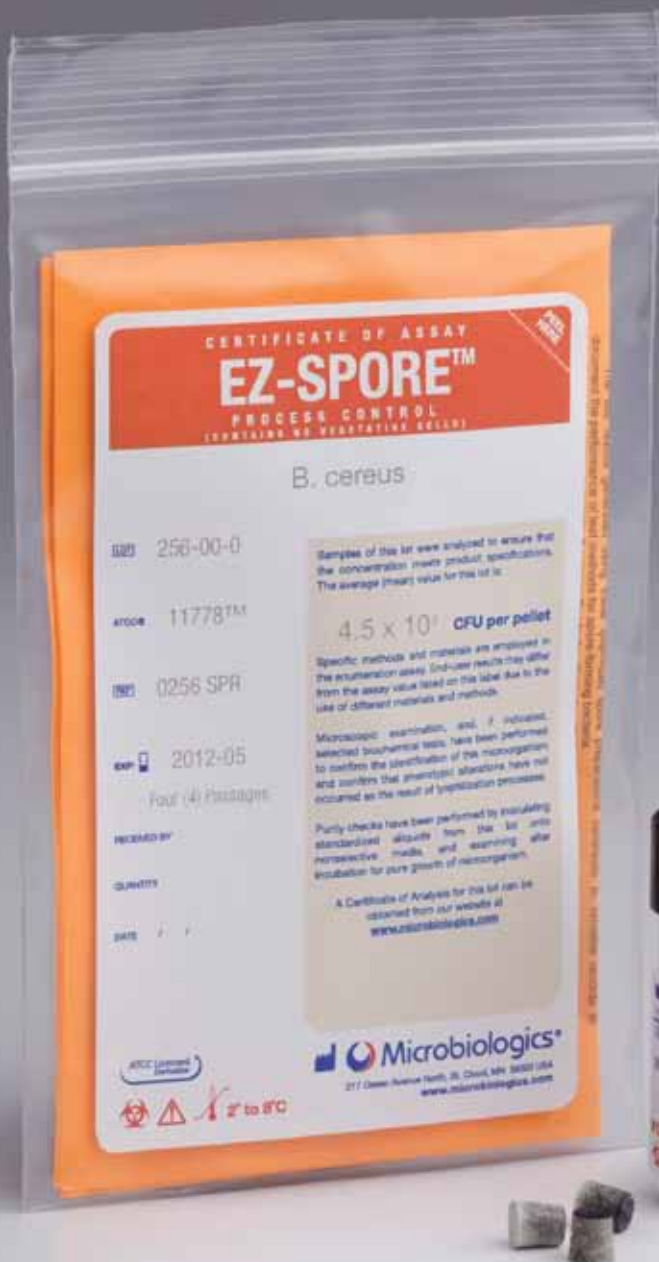
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EZ-SPORE™

DAILY PROCESS CONTROLS FOR SPOILAGE DETECTION

- Quantitative
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty

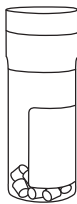


EZ-SPORE™ PRODUCT DETAILS

Food microbiology labs rely on EZ-SPORE™ quantitative microorganism preparations to support their quality assurance programs as daily process controls for spoilage detection methods. EZ-SPORE™ preparations provide a guaranteed concentration of 10^4 CFU per pellet. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. EZ-SPORE™ is packaged in a vial containing 10 pellets of a single lyophilized strain.

EZ-SPORE™ Instructions for Use

1



Remove the vial of lyophilized pellets from refrigerated storage (2°C- 8°C). Allow unopened vial to equilibrate to room temperature.

2



While the pellets are equilibrating, use an incubator to prewarm dilution fluid to 34°C-38°C (At least 30 minutes).

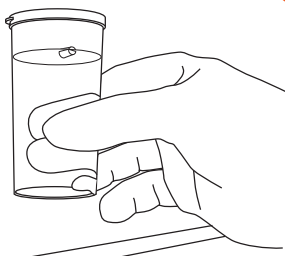
3



With sterile forceps, transfer one (1) pellet into the dilution fluid (do not remove the desiccant from vial). **ONLY ONE PELLETS MUST BE USED.**

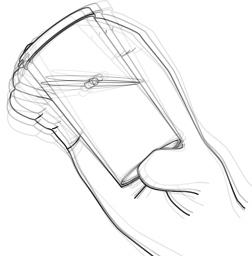
IMMEDIATELY stopper and recap the pellet vial and return the remaining lyophilized material to refrigerated storage 2°C - 8°C.

4



IMMEDIATELY place the microorganism suspension into a 34°C-38°C incubator for thirty (30) minutes.

5



IMMEDIATELY following incubation, vortex or thoroughly mix the hydrated material to achieve a homogeneous suspension.

6

Proceed with the complete quantitative or qualitative testing procedure as set forth in the laboratory SOP. Provide performance documentation by recording the test results.

Note: All challenges must be completed within 30 minutes after incubation.

CAT#	PRODUCT DESCRIPTION	BSL	COMMENT
Note: Not for use as a verification for steam autoclave sterilization.			
0256SPR	Bacillus cereus ATCC® 11778™*	1	
0486SPR	Bacillus subtilis subsp. spizizenii ATCC® 6633™*	1	
0871SPR	Geobacillus stearothermophilus ATCC® 7953™*	1	

IMPORTANT: The mean assay value provided with the enumerated microorganism preparations is an average of the values obtained during the enumeration phase of the quality control process. The quality control specification requires all values to fall within the target log range stated for a specific product. For more information, please see mean assay value listed in the Product Overview section at the beginning of this catalog.

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Custom Solutions

Microbiologics®

- ENVIRONMENTAL ISOLATE PRESERVATION SERVICES
- INSTRUMENT CONTROLS
- MULTIPLE CONFIGURATIONS
- MADE TO YOUR SPECIFICATIONS



CUSTOM SOLUTIONS

In today's world, product safety is a global concern affecting public health, economics and international trade. As a result, we continue seeing an increase in government regulations and stronger emphasis on the use of international standards. Undoubtedly, your list of "objectionable microorganisms" is expanding as Quality Control testing increases to encompass everything from environmental isolates to microbial strains coming from raw materials. At Microbiologics, we offer a wide variety of Custom Solutions to meet your unique objectionable microorganism needs – we will work with you to develop products that meet your exact specifications, in easy-to-use, convenient formats.

For Your Unique
Objectionable Microorganism Needs

Contact Us:

custom@microbiologics.com

CUSTOMER SERVICE:

phone 320.253.1640 | toll-free 800.599.BUGS (2847) | fax 320.253.6250

www.microbiologics.com

Appendix

- ◆ Quality Policy and Quality Assurance Document
- ◆ Product Warranty and Product Replacement Document



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QUALITY POLICY

Microbiologics is committed to providing the highest quality biomaterials for a safer, healthier world. We do this by complying with the requirements of our Quality Management System and continually seeking new ways to improve our products and processes.

QUALITY ASSURANCE

ATCC LICENSED DERIVATIVE® PROGRAM

Under the ATCC Licensed Derivative® Program, in 2005, Microbiologics was the first manufacturer that signed the license agreement with ATCC®.

CE MARK

Microbiologics clinical product line including, LYFO DISK®, KWIK-STIK™, KWIK-STIK™ Plus Microorganisms, Microbiology QC Slides and KWIK-QC™ Slides, conform to the In Vitro Diagnostic Device Directive 98/79/EC of the European Parliament and contain the CE Mark. This marking indicates Microbiologics declaration of conformity to the European Union safety, health and environmental standards of the directive.

EXTERNAL AUDITS

Microbiologics allows customers the opportunity to visit and audit its facilities during normal business hours to determine adherence to quality assurance programs, regulatory compliance, and conformity to international standards.

FOOD AND DRUG ADMINISTRATION ESTABLISHMENT

Microbiologics is registered with the Food and Drug Administration (FDA) as a Device Establishment (Establishment # 2150138). This registration dictates regulatory mandates to meet and comply with the elements set forth in the FDA; Quality System Regulation (QSR) 21CFR Part 820 Medical Devices; Current Good Manufacturing Practice (CGMP). The compliance applies to the methods used in, and the facilities and controls used for, the design, purchase, manufacture, packaging, labeling, storage, and distribution of in-vitro, medical diagnostic products. These provisions are intended to ensure that finished product will be safe and effective and otherwise in compliance with the Federal Food, Drug, and Cosmetic Act. Several of the Microbiologics product lines are not intended as in-vitro, medical diagnostic products and may not be subject to the FDA QSR. However, regardless of intended applications or use, all of Microbiologics products are placed under, and meet, the provisions of FDA QSR.

ISO 9001

Microbiologics is an ISO 9001 Certified Company and is subject to external audits on a regular schedule. Conformity to ISO 9001 ensures that the design, production and distribution of products are performed under, and conform to, the provision of a documented quality management system.

ISO 17025

In February 2008, the Laboratory at Microbiologics achieved accreditation to the ISO 17025 standard within their scope of accreditation. The importance of gaining accreditation to this standard is that it provides additional recognition of the quality of the laboratory work that our products undergo during the Quality Assurance process.

ISO Guide 34

In May 2009, Microbiologics received their accreditation to ISO Guide 34 "General requirements for the competence of reference material producers." This accreditation ensures that a management system is maintained which provides technical support to the programs of the corporation by consistently producing quality Certified Reference Materials (CRM).

LIT.127 Revision 2011.FEB.25



PRODUCT WARRANTY AND PRODUCT REPLACEMENT

PRODUCT WARRANTY

Microbiologics warrants that products, exclusive of disclaimer statement, will perform satisfactorily and be free of defect if used as intended, stored as directed, processed according to instructions, and used by the expiration date. The expiration date is the last day of the month stated on the product label.

MICROBIOLOGICS MAKES NO FURTHER WARRANTY OF ANY KIND WITH RESPECT TO THE PRODUCT AND EXPRESSLY DISCLAIMS ANY WARRANTIES IMPLIED BY LAW, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

PRODUCT REPLACEMENT

Microbiologics agrees to replace or give credit for any product that fails to meet stated specifications and performance, provided the correct procedures have been followed. Should any product fail to meet specifications and performance, contact Microbiologics' Technical Support Service Department at 320-253-1640. Be prepared to provide:

- ☐ the nature of the problem
- ☐ the product description
- ☐ catalog number
- ☐ lot number
- ☐ date of receipt and
- ☐ the number of units involved.

All claims for unsatisfactory product performance must be made prior to the expiration date.

Should any product arrive in a damaged condition, the carrier must note the condition on the delivery receipt. All claims for products damaged during shipment must be made to Microbiologics within seven (7) business days of receipt.

MICROBIOLOGICS' SOLE OBLIGATION AND PURCHASER'S EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY SHALL BE, AT THE OPTION OF MICROBIOLOGICS, TO REPLACE THE PRODUCTS. IN NO EVENT SHALL MICROBIOLOGICS BE LIABLE FOR ANY PROXIMATE, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PRODUCTS.

LIT.170 Revision 2011.FEB.25



A safer, healthier world.

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