## MICROBIOLOGY CONTROL PRODUCTS

# Microbiologics

# Microorganisms And Nucleic Acids For PCR



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## microbiologics.com

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

- · Digital catalog
- · Product descriptions and applications
- · End user registration
- Certificates of Analysis and Certificates of Performance
- Online ordering
- Contact Us form

- Instructions for Use (multiple translations)
- · Locate a distributor by country
- Safety Data Sheets (multiple translations)
- Customer & Technical Support documents
- · Easy-to-use product and document search
- Frequently asked questions (FAQs)
- · Order management

## **Customer Service**

We take pride in providing you with exceptional customer service. Customer calls are answered by a team of experts ready to assist you with everything from account set up to placing an order.

All international customers should contact an authorized distributor for ordering information. Locate a distributor in your area by visiting microbiologics.com. If an authorized distributor is not listed in your country, please contact Microbiologics Customer Service.

## **Technical Support**

Our team of experienced Technical Support experts are always eager to help customers use our product successfully. They can provide guidance for selecting the right strains and product formats for your unique testing needs, and help problem solve when issues arise in your lab.

Contact Customer Service		
Hours	7:30 a.m 5 p.m. (CST)	
Phone	1.320.253.1640	
US Toll Free	800.599.BUGS (2847)	
Fax	320.253.6250	
Email	info@microbiologics.com	

Contact Technical Support		
Hours	8:00 a.m 5 p.m. (CST)	
Phone	1.320.229.7045	
US Toll Free	866.286.6691	
Fax	320.253.6250	
Email	techsupport@microbiologics.com	

## **Worldwide Distribution**

Our extensive distribution network allows us to reach every corner of the world, from Afghanistan to Zambia. We select distributors that are customer focused and demonstrate a commitment to our mission of providing the highest quality biomaterials for a safer, healthier world. Locate a distributor in your area by visiting microbiologics.com.

## International Customers

All international customers must contact an authorized distributor within their country to place an order. To search for distributors by country, visit microbiologics.com. If an authorized distributor is not listed in your country, please contact Microbiologics Customer Service at info@microbiologics.com or +1 320.253.1640.

## **USA Customers**

Customers located in the United States may purchase Microbiologics products directly or through an authorized distributor. Visit microbiologics.com to search for distributors in the United States. Orders can be placed online at microbiologics.com or by contacting Customer Service. Be prepared to provide the following information with your order:

- Customer account number
- Registration number
- · Billing address
- · Telephone number
- Email address
- · Fax number
- · Shipping address

- · Purchase order number
- · Credit card information
- Tax exemption information (certified exemption form must be kep on file)
- Quantities
- Microbiologics catalog number or reference culture numbers

Online orders can be placed at microbiologics.com by signing in on the homepage or clicking "Register" to create an account.

## **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 Instructions for Use). Please report concerns to Microbiologics Technical Support immediately. For more information, see the document titled *Product Warranty and Product Replacement* located at microbiologics.com.

## End User Registration

An authorized representative from your organization must agree to the terms of the End User Agreement in order to receive Microbiologics biological materials. A royalty fee will be charged on behalf of the culture collection.

Registration can be completed at microbiologics.com. Contact Customer Service at 1.320.253.1640 or info@microbiologics.com with questions about the End User Agreement.

## **Payment Options**

Microbiologics accepts payment by the following methods:

- ACH
- Check (payable to Microbiologics, Inc.)
- Credit card
- · Money order
- · Wire transfer

**Important:** To ensure your payment is processed accurately, please note your account number and the invoice number on all correspondence and payments.

## Credit Card Purchases

Microbiologics welcomes the use of VISA®, MasterCard® and American Express®.

#### Terms

- All invoices are payable "Net 30 Days" (with the exception of credit card payments)
- Past due accounts are subject to finance charges of 1.5% per month
- All payments are paid in United States Dollars (USD)
- If not reflected on an invoice, the purchaser is responsible for all applicable State Sales and Use Taxes
- When paying by wire transfer the customer is responsible to pay all applicable transfer fees. Please email Microbiologics Customer Service at info@microbiologics.com to review options for wire transfer fee payments.

## Shipping and Delivery

Orders are shipped within 48 hours except when a specific shipping date is requested. All shipments are EXW (Ex Works) Saint Cloud, Minnesota, unless prior arrangements are made. Lyophilized microorganisms are identified as Biological Substance Category B or Infectious Substance and are subject to regulated packaging materials, special labeling and special shipping requirements. All shipping and handling charges will be listed as separate line items on the invoice.

Products are shipped at ambient temperature unless otherwise requested. The outside of the shipping container is identified with the notation "refrigerate upon receipt" to assure proper handling and storage upon arrival. Due to the nature of our products, we are unable to accept returns. If any product arrives in a damaged condition, the carrier must note the condition on the delivery receipt. All claims for products damaged during shipment must be made within 30 days of receipt. Microbiologics guarantees the performance of our products at all times. If at any time you are dissatisfied with our products or service, please contact our Customer Service team at 1.320.253.1640 or info@microbiologics.com for resolution.

## Trademarks

Microbiologics<sup>®</sup> Trademarks: Helix Elite<sup>™</sup> is a trademark of Microbiologics, Inc. Microbiologics<sup>®</sup> is a registered trademark of Microbiologics, Inc.



# BLOOD CULTURE

Diagnosing sepsis and bloodstream infections requires fast, accurate laboratory results for swift and proper treatment. To help clinical labs ensure their blood culture identification (BCID) instruments and assays are consistently producing reliable results, we offer a variety of verification and quality control panels designed for efficiency and usability.



## Safe, simple, stable controls

- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance



## **Blood Culture Identification (BCID)** Control Panel (Inactivated) - Catalog #8215

Contains 6 inactivated, pre-pooled pellets comprised of the microorganisms listed below.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Acinetobacter baumannii
- Candida albicans
- Candida glabrata
- Candida krusei
- Candida parapsilosis
- Candida tropicalis
- Enterobacter cloacae
- Enterococcus faecalis (vanB)
- Escherichia coli
- Haemophilus influenzae
- Klebsiella oxytoca

- Klebsiella pneumoniae (KPC)
- Listeria monocytogenes serovar 7
- Neisseria meninaitidis
- Proteus vulgaris
- Pseudomonas aeruginosa
- Serratia marcescens
- Staphylococcus aureus (MRSA)
- Staphylococcus epidermidis (MSSE)
- Streptococcus agalactiae
- Streptococcus pneumoniae
- Streptococcus pyogenes

## Blood Culture Identification (BCID) Verification Panel (Inactivated) - Catalog #8201

Contains 1 individually packaged vial containing inactivated microorganism material of each pool listed below (3 vials total) and 3 vials of molecular hydration buffer. Once rehydrated, each vial contains enough material for 5 uses and can be used for up to 72 hours when refrigerated.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Pool 1 (1 vial/pellet)	Pool 2 (1 vial/pe
Candida albicans	Acinetobacter bau
Candida krusei	Candida glabrata
Neisseria meningitidis	Candida tropicalis
Pseudomonas aeruginosa	Enterobacter cload
Staphylococcus aureus (MRSA) Streptococcus agalactiae Streptococcus pyogenes	Enterococcus faed
	Escherichia coli
	Klebsiella oxytoca
	Listeria monocytoo
	Stanbylananya

#### llet)

ımannii cae calis (vanB) genes serovar 7 Staphylococcus epidermidis (MSSE)

#### Pool 3 (1 vial/pellet)

Candida parapsilosis Haemophilus influenzae Klebsiella pneumoniae (KPC) Proteus vulgaris Serratia marcescens Streptococcus pneumoniae

## Blood Culture Identification (BCID) Verification Panel (Live Culture) -Catalog #5229P

Contains 2 KWIK-STIKs of each strain listed below (44 KWIK-STIKs total).

- 0357 Acinetobacter baumannii derived from ATCC<sup>®</sup> 19606™\*
- 0443 Candida albicans derived from ATCC<sup>®</sup> 10231™\*
- 0737 Candida glabrata derived from ATCC<sup>®</sup> 15126™\*
- 0809 Candida krusei derived from ATCC<sup>®</sup> 14243™\*
- 0726 Candida parapsilosis derived from ATCC<sup>®</sup> 22019™\*
- 01036 Candida tropicalis derived from ATCC<sup>®</sup> 1369™\*
- 0323 Enterobacter cloacae subsp. cloacae derived from ATCC<sup>®</sup> 13047™\*
- 0959 *Enterococcus faecalis* derived from ATCC<sup>®</sup> 51299<sup>™\*</sup> (vanB positive, resistant to vancomycin and high level aminoglycosides)
- 0681 Escherichia coli derived from ATCC<sup>®</sup> 11229™\*
- 0441 Haemophilus influenzae derived from ATCC<sup>®</sup> 10211™\* (type b and beta lactamase negative)
- 0530 Klebsiella oxytoca derived from ATCC<sup>®</sup> 13182™\*
- 01005 Klebsiella pneumoniae derived from ATCC<sup>®</sup> BAA-1705™\*
- 0277 Listeria monocytogenes derived from ATCC<sup>®</sup> 19111<sup>™</sup>\* (serotype 1)
- 0453 Neisseria meningitidis derived from ATCC<sup>®</sup> 13077<sup>™\*</sup> (serogroup A)
- 0944 Proteus mirabilis derived from ATCC<sup>®</sup> 35659™\*
- 0353 Pseudomonas aeruginosa derived from ATCC<sup>®</sup> 27853™\*
- 0247 Serratia marcescens derived from ATCC<sup>®</sup> 13880™\*
- 0496 Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 33591™\* (methicillin resistant)
- 0371 Staphylococcus epidermidis derived from ATCC<sup>®</sup> 12228™\*
- 0439 Streptococcus agalactiae derived from ATCC<sup>®</sup> 12386<sup>™\*</sup> (group B)
- 0865 Streptococcus pneumoniae derived from ATCC<sup>®</sup> 10015™\*
- 0385 Streptococcus pyogenes derived from ATCC<sup>®</sup> 19615<sup>™\*</sup> (group A)



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## Gram-Negative Blood Culture Control Panel (Inactivated Pellet) - Catalog #8181

Contains 5 inactivated microorganism pellets of each pool listed below (15 vials/pellets total).

Refrigerated storage | For in vitro diagnostic use | International restrictions may apply

Pool 4 (5 vials/pellets) Acinetobacter baumannii Pseudomonas aeruginosa Enterobacter cloacae (CTX-M) Pool 5 (5 vials/pellets) Klebsiella pneumoniae (KPC) Citrobacter freundii Escherichia coli Klebsiella pneumoniae (CTX-M, NDM) Klebsiella pneumoniae (VIM) Pool 6 (5 vials/pellets) Klebsiella oxytoca Klebsiella pneumoniae (OXA) Proteus vulgaris

## Gram-Negative Blood Culture Control Panel (Live Culture) - Catalog #5226P

Contains 2 KWIK-STIKs of each strain listed below (24 KWIK-STIKs total).

- 0599 Acinetobacter baumannii derived from NCIMB 12457
- 0574 Citrobacter freundii derived from NCTC 9750
- 01105 Enterobacter cloacae derived from NCTC 13464
- 01136 Escherichia coli derived from NCTC 13476
- 01117 Klebsiella pneumoniae derived from NCTC 13438
- 01148 Klebsiella pneumoniae derived from NCTC 13442
- 01145 Klebsiella pneumoniae derived from NCTC 13443
- 01112 Klebsiella pneumoniae derived from NCTC 13440
- 01147 Klebsiella oxytoca derived from NCTC 11686
- 0393 Proteus vulgaris derived from NCTC 4636
- 0830 Pseudomonas aeruginosa derived from NCTC 10662
- 01146 Serratia marcescens derived from NCTC 9743





## Gram-Positive Blood Culture Control Panel (Inactivated Pellet) - Catalog #8180

Contains 5 inactivated microorganism pellets of each pool listed below (15 vials/pellets total).

Refrigerated storage | For in vitro diagnostic use | International restrictions may apply

Pool 1 (5 vials/pellets) Enterococcus faecium (vanA) Listeria monocytogenes Staphylococcus epidermidis Staphylococcus lugdunensis Pool 2 (5 vials/pellets) Streptococcus agalactiae Streptococcus anginosus Streptococcus pyogenes Pool 3 (5 vials/pellets) Staphylococcus aureus (mecA) Enterococcus faecalis (vanB) Streptococcus pneumoniae

## Gram-Positive Blood Culture Control Panel (Live Culture) - Catalog #5225P

Contains 2 KWIK-STIKs of each strain listed below (20 KWIK-STIKs total).

- 0714 Enterococcus faecalis derived from NCTC 13379
- 01143 Enterococcus faecium derived from NCTC 12204
- 0783 Listeria monocytogenes derived from NCTC 10890
- 01065 Staphylococcus aureus derived from NCTC 12493
- 0571 Staphylococcus epidermidis derived from NCIMB 8853
- 01150 Staphylococcus lugdunensis derived from NCTC 7990
- 0480 Streptococcus agalactiae derived from NCTC 8017
- 0389 Streptococcus anginosus derived from NCTC 10713
- 0469 Streptococcus pneumoniae derived from NCIMB 13286
- 0314 Streptococcus pyogenes derived from NCIMB 13285





# GASTROINTESTINAL (GI) PATHOGENS

With the broad array of viruses, bacteria and parasites that can cause gastrointestinal (GI) infections, diagnosis can sometimes feel like a guessing game. Microbiologics offers easy-to-use verification and control panels for rapid diagnostic instruments and multiplex assays designed for detecting gastrointestinal pathogens, because QC testing shouldn't be another mystery.



## Safe, simple, stable controls

- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance



## BD MAX<sup>™</sup> Enteric Parasite 20-Day QC Panel -Catalog #8202

Contains 20 inactivated, pre-pooled microorganism pellets comprised of the organisms recommended by the manufacturer for QC listed below (20 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Cryptosporidium parvum
- Giardia lamblia
- Entamoeba histolytica surrogate



## BD MAX<sup>™</sup> Enteric Parasite Control Panel -Catalog #8204

Contains 6 inactivated, pre-pooled microorganism pellets comprised of the organisms recommended by the manufacturer for QC listed below (6 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Cryptosporidium parvum
- Giardia lamblia
- Entamoeba histolytica surrogate

## Enteric Bacterial Organism Set (Live Culture) - Catalog #8179

Contains 2 KWIK-STIKs of each strain listed below (42 KWIK-STIKs total).

Export license required for shipping outside the U.S.

- 0357 Acinetobacter baumannii derived from ATCC<sup>®</sup> 19606™\*
- 01023 Campylobacter coli derived from ATCC<sup>®</sup> 33559™\*
- 0121 *Campylobacter coli* derived from ATCC<sup>®</sup> 43478™\*
- 0325 Campylobacter jejuni subsp. jejuni derived from ATCC<sup>®</sup> 29428™\*
- 0111 Campylobacter jejuni subsp. jejuni derived from ATCC<sup>®</sup> 33560™\*
- 0525 Campylobacter jejuni subsp. jejuni derived from ATCC® 43430™\*
- 01101 Escherichia coli serotype O103:H11 derived from CDC 06-3008 (STEC)
- 01104 *Escherichia coli* serotype O104:H4 derived from ATCC<sup>®</sup> BAA-2326™\* (STEC)
- 01102 Escherichia coli serotype O111:H8 derived from CDC 2010C-3114 (STEC)
- 01097 Escherichia coli serotype O145:NM derived from CDC 99-3311 (STEC)
- 0617 Escherichia coli serotype O157:H7 derived from ATCC<sup>®</sup> 35150™\* (STEC)
- 0595 Salmonella bongori derived from ATCC<sup>®</sup> 43975™\*
- 0901 Salmonella enterica subsp. arizonae derived from ATCC<sup>®</sup> 13314™\*
- 01045 Salmonella enterica subsp. diarizonae derived from ATCC® 29934™\*
- 0345 Salmonella enterica subsp. enterica serovar Enteritidis derived from ATCC<sup>®</sup> 13076™\*
- 0363 Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC<sup>®</sup> 14028™\*
- 0349 Shigella boydii derived from ATCC<sup>®</sup> 9207™\*
- 0356 Shigella flexneri (2b) derived from ATCC<sup>®</sup> 12022™\*
- 0348 Shigella flexneri derived from ATCC<sup>®</sup> 9199™\*
- 0303 Shigella sonnei derived from ATCC<sup>®</sup> 25931™\*
- 0350 Shigella sonnei derived from ATCC<sup>®</sup> 29930™\*



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## Enteric Parasite Verification Panel (Synthetic) - Catalog #8182

Contains 5 vials of dried synthetic consensus sequence DNA, 1 vial of molecular standar water for rehydration and a Certificate of Analysis. Each vial is comprised of pooled *Cryptosporidium* spp., *Entamoeba histolytica* and *Giardia lamblia* synthetic DNA. No additional mixing or dilution required.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply





## Enteric Pathogens Control Panel (Inactivated Pellet) - Catalog #8184

Contains 5 inactivated microorganism pellets of each pool listed below (10 vials/pellets total).

Refrigerated storage | For in vitro diagnostic use | International restrictions may apply

#### Pool 7/Positive Control (5 vials/pellets)

Campylobacter jejuni Shigella sonnei Yersinia enterocolitica Salmonella enterica subsp. enterica Typhimurium Vibrio parahaemolyticus *Escherichia coli* (shiga toxin 1, shiga toxin 2) Rotavirus SA11 Recombinant Norovirus GII.4

Pool 8/Negative Control (5 vials/pellets) Clostridium difficile NAP1



## Enteric Viral Control Panel - Catalog #8211

Contains 6 inactivated, pre-pooled microorganism pellets comprised of the organisms listed below (6 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Adenovirus 40

- Rotavirus
- Recombinant Astrovirus
- Recombinant Sapovirus
- Recombinant Norovirus GII

#### Enteric Viral Verification Panel - Catalog #8210

Contains 20 inactivated, pre-pooled microorganism pellets comprised of the organisms listed below (20 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Adenovirus 40

- Rotavirus
- Recombinant Astrovirus
- Recombinant Sapovirus
- Recombinant Norovirus GII



#### Extended Enteric Bacterial Verification Panel (Inactivated Pellet) - Catalog #8191

Contains 21 inactivated, pre-pooled microorganism pellets comprised of the organisms listed below (21 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | Export license required for shipping outside the U.S.

- Campylobacter jejuni subsp. jejuni
- Escherichia coli serotype O111:H8 (STEC, eae positive, stx 1 and/or stx 2 positive)
- Escherichia coli serovar O159:H34 (ETEC)
- Plesiomonas shigelloides
- Salmonella enterica subsp. enterica serovar Typhimurium
- Shigella sonnei
- Vibrio parahaemolyticus (VP81, serotype O3:K6)
- Yersinia enterocolitica (biotype 2, serotype 9)

# Norovirus Control Panel (Inactivated Swab) - Catalog #8205

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total) comprised of the strains listed below, and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Positive Control (6 swabs):

- Recombinant Norovirus GI.1 (ORF1-ORF2)
- Recombinant Norovirus GII.4 (ORF1-ORF2)

Negative Control (6 swabs): Rotavirus



## Helix Elite<sup>™</sup> Molecular Standards for GI Testing



## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains 5 unassayed inactivated microorganism pellets packaged in individual vials for ease-of-use and to avoid cross contamination.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Inactivated Rotavirus - Catalog #HE0027N

- Room temperature storage
- Medium-high titer
- For in vitro diagnostic use



## Synthetic Helix Elite Molecular Standards

For use as a positive control in molecular applications. Each kit contains 1 vial of dried synthetic consensus sequence DNA or RNA (approximately 100 reactions), 1 vial of molecular standard water for rehydration and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

## Norovirus GI.1 Synthetic RNA -Catalog #HE0013S

- Room temperature storage
- ORF1-ORF2 Junction of Norovirus GI.1
- Dried RNA Preserved with Biomatrica RNAstable®
- For in vitro diagnostic use

## Norovirus GII.4 Synthetic RNA -Catalog #HE0012S

- Room temperature storage
- ORF1-ORF2 Junction of Norovirus GII.4
- Dried RNA Preserved with Biomatrica RNAstable®
- For in vitro diagnostic use



# HEALTHCARE-ASSOCIATED

When it comes to detecting and identifying healthcare-associated infections (HAIs), there is no room for error. Microbiologics offers simple, reliable controls for HAI testing in clinical laboratories so you can be certain your testing procedures and materials are working properly.



## Safe, simple, stable controls

- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance

## Assay-Specific Panels for HAI Testing

## Cepheid Xpert<sup>®</sup> C. difficile Control Panel (Inactivated Swab) - Catalog #8200

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC. For use with Xpert<sup>®</sup> C. *difficile*/Epi assay

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Positive Control (6 swabs): Clostridium difficile Negative Control (6 swabs): Clostridium sordellii



#### Cepheid Xpert® MRSA/MRSA NxG Control Panel - Catalog #8195

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC. For use with Xpert<sup>®</sup> MRSA NxG assay.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Positive Control (6 swabs): Methicillin Resistant Staphylococcus aureus Negative Control (6 swabs): Staphylococcus epidermidis

## Cepheid Xpert® MRSA/SA Control Panel - Catalog #8196

Contains 12 positive control swabs and 6 negative control swabs (18 swabs total) comprised of the organisms recommended by the manufacturer for QC. For use with Xpert® SA Nasal Complete assay.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Positive Control 1 (6 swabs): Methicillin Resistant Staphylococcus aureus Positive Control 2 (6 swabs): Staphylococcus aureus Negative Control (6 swabs): Staphylococcus epidermidis

## C. difficile QC Set (Live Culture) - Catalog #8171

Contains 2 KWIK-STIKs of a positive control and negative control (4 KWIK-STIKs total).

#### Positive Control (2 KWIK-STIKs):

Clostridioides difficile derived from ATCC<sup>®</sup> 9689™\* (tcdA positive, tcdB positive)

#### Negative Control (2 KWIK-STIKs):

Clostridioides difficile derived from ATCC<sup>®</sup> 700057™\* (tcdA negative, tcdB negative; nontoxigenic)



# Carbapenem-resistant Enterobacteriaceae (CRE) Control Panel (Inactivated Swab) - Catalog #8187

Contains 6 pre-pooled positive control swabs and 6 negative control swabs (12 swabs total) comprised of the organisms listed below, and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Positive Control (6 swabs):

- Escherichia coli (IMP-type)
- Klebsiella pneumoniae
   (VIM-1, Metallo-beta-lactamase positive)
   Klebsiella pneumoniae
- (NDM-1 positive, New Delhi metallo-beta-lactamase)
- Klebsiella pneumoniae (produces carbapenemase KPC-3)
- Klebsiella pneumoniae (OXA-48)

Negative Control (6 swabs): Escherichia coli

## MRSA Organism Set (Live Culture) - Catalog #8174

Contains 2 KWIK-STIKs of 9 Staphylococcus aureus strains and 1 Staphylococcus epidermidis strain (20 KWIK-STIKs total).

- 01065 Staphylococcus aureus derived from NCTC 12493
- 0485 Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 6538™\*
- 0365 Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 29213™\*
- 0496 Staphylococcus aureus subsp. aureus derived from ATCC® 33591™\*
- 0352 Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 33862™\*
- 0852 Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 43300™\*
- 01022 Staphylococcus aureus subsp. aureus derived from ATCC® 700698™\*
- 0158 Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 700699™\*
- 0713 Staphylococcus aureus subsp. aureus derived from NCTC 12973
- 01068 Staphylococcus epidermidis derived from ATCC<sup>®</sup> 51625™\*



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## SA Organism Set (Live Culture) - Catalog #8178

Contains 14 Staphylococcal strains, one KWIK-STIK of each strain (14 KWIK-STIKs total).

- 11 strains/KWIK-STIKs: Methicillin Resistant Staphylococcus aureus (MRSA)
- 2 strains/KWIK-STIKs: Methicillin Sensitive Staphylococcus aureus (MSSA)
- 1 strain/KWIK-STIKs: Methicillin Sensitive Staphylococcus epidermidis (MSSE)

#### Live Culture Staphylococcus Controls

Each kit contains 2 KWIK-STIKs at E4 concentration.

- Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 25923™\* (MSSA Live Culture Positive Control) - Catalog #0360MSSA
- Staphylococcus aureus subsp. aureus derived from ATCC<sup>®</sup> 700699™\* (MRSA Live Culture Positive Control) - Catalog #0158MRSA
- Staphylococcus epidermidis derived from ATCC<sup>®</sup> 12228™\* (MSSE Live Culture Positive Control) - Catalog #0371MSSE



## Strep B Organism (Live Culture) - Catalog #8173

Contains 4 KWIK-STIKs of each strain listed below (40 KWIK-STIKs total).

- 0439 Streptococcus agalactiae (B) derived from ATCC<sup>®</sup> 12386™\*
- 0436 Streptococcus agalactiae (B) derived from ATCC<sup>®</sup> 27956™\*
- 0710 Streptococcus agalactiae (B) derived from NCTC 9993
- 0104 Streptococcus agalactiae (B, III) derived from ATCC<sup>®</sup> 12403™\*
- 0389 Streptococcus anginosus (G) derived from NCTC 10713
- 0603 Streptococcus dysgalactiae subsp. equisimilis (C) derived from ATCC<sup>®</sup> 12388™\*
- 0373 Streptococcus dysgalactiae subsp. equisimilis (C) derived from NCTC 8543
- 0385 Streptococcus pyogenes (A) derived from ATCC<sup>®</sup> 19615™\*
- 0978 Streptococcus spp. (F,2) derived from ATCC<sup>®</sup> 12392™\*
- 0864 Streptococcus spp. (B, Ib) derived from ATCC<sup>®</sup> 12401™\*

## Vancomycin Resistant Enterococcus (VRE) Control Panel (Inactivated Swab) - Catalog #8203

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total) comprised of the strains listed below, and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

**Positive Control (6 swabs):** *Enterococcus faecium* (vanA-type glycopeptide resistance and Vancomycin resistant)

Negative Control (6 swabs): Enterococcus faecalis







Cold and flu season is a busy time in the laboratory. QC testing your diagnostic instruments and assays shouldn't add to the stress. Microbiologics offers accurate, test-ready controls for a variety of respiratory pathogens to help you meet laboratory standards and ensure your methods and materials are producing reliable results.



## Safe, simple, stable controls

- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance

## Assay-Specific Panels for Respiratory Testing

## Cepheid Xpert® Respiratory Control Panel (Inactivated Swab) - Catalog #8199

Contains 6 positive control swabs (pre-pooled) and 6 negative control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC listed below. For use with Xpert<sup>®</sup> Flu and Xpert<sup>®</sup> Flu/RSV XC assays.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Positive Control (6 swabs):

- Influenza A (H1N1) Virus
- Influenza A (H3H2) Virus
- Influenza B Virus
- Respiratory Syncytial Virus A
- Negative Control (6 swabs): Coxsackievirus B1



## Syndrome-Specific Panels for Respiratory Testing

## Enterovirus (EV) Control Panel (Inactivated Swab) - Catalog #8190

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total), and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Positive Control (6 swabs): Coxsackievirus B1 Negative Control (6 swabs): Rhinovirus 1B



#### Group A Streptococcus (GAS) Control Panel (Inactivated Swab) - Catalog #8219

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total), and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Positive Control (6 swabs): Streptococcus pyogenes Negative Control (6 swabs): Streptococcus dysgalactiae

## Syndrome-Specific Panels for Respiratory Testing



Respiratory (21 Targets) Control Panel - Catalog #8217

Contains 6 inactivated, pre-pooled microorganism pellets comprised of the organisms listed below (6 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Adenovirus Type 6
- Bordetella parapertussis
- Bordetella pertussis
- Chlamydia pneumoniae
- Coronavirus 229E
- Recombinant Coronavirus HKU1
- Recombinant Coronavirus NL63
- Recombinant Coronavirus OC43 Strain 1 and Recombinant Coronavirus OC43 Strain 2
- Recombinant Human Metapneumovirus
- Human Rhinovirus

- Influenza A
- Influenza A subtype H1
- Influenza A subtype H1-2009
- Influenza A subtype H3
- Influenza B
- Mycoplasma pneumoniae
- Parainfluenza Virus 1
- Parainfluenza Virus 2
- Parainfluenza Virus 3
- Recombinant Parainfluenza Virus 4a
- Respiratory Syncytial Virus

## Respiratory Pathogens (16 Strains) Control Panel (Inactivated Pellet) - Catalog #8198

Contains 5 inactivated microorganism pellets of each pool listed below (15 vials/pellets total).

Refrigerated storage | For in vitro diagnostic use | International restrictions may apply



#### Positive Pool 1 (5 vials/pellets)

Adenovirus (Adenoid 6) Bordetella holmesii Bordetella pertussis Parainfluenza 1 (VP1) Parainfluenza 2 (Greer) Parainfluenza 3 (C243) Recombinant Human Metapneumovirus Recombinant Parainfluenza 4 Recombinant Rhinovirus

#### Positive Pool 2 (5 vials/pellets)

Bordetella parapertussis Influenza A (H1N1) Influenza A (H3N2) Influenza B (Hong Kong/5/72) Recombinant RSV B RSV A (Long)

Negative Pool (5 vials/pellets) Coronavirus



## Inactivated Adenovirus 2 -Catalog #HE0026N

- Strain Adenoid 6

## Inactivated Chlamydia pneumoniae -Catalog #HE0034N

- Strain CWL-029 - Not availabe for shipment to Europe

## Inactivated Influenza A/B and Respiratory Syncytial Virus - Catalog #HE0044N

Each pellet contains:

- Influenza A (H1N1) Virus

- IInfluenza B Virus, Strain Hong Kong/5/72
- Respiratory Syncytial Virus (RSV) A, Strain Long

## Inactivated Influenza A (H1N1) Virus -Catalog #HE0029N

- Strain subtype H1N1

## Inactivated Influenza A (H3N2) Virus -Catalog #HE0043N

- Strain subtype H3N2

## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains 5 unassayed inactivated microorganism pellets packaged in individual vials for ease-of-use and to avoid cross contamination.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

## Inactivated Influenza B Virus -Catalog #HE0030N

- Strain Hong Kong/5/72

# Inactivated Parainfluenza Virus 1 - Catalog #HE0031N

- Strain VP1

## Inactivated Parainfluenza Virus 2 -Catalog #HE0032N

- Strain Greer

## Inactivated Parainfluenza Virus 3 -Catalog #HE0033N

- Strain C243

## Inactivated Varicella Zoster Virus -Catalog #HE0038N

- Strain VZ-10





Your laboratory is committed to elevating the standard of care for women's health and sexually transmitted infections (STIs) with advanced diagnostic technologies. When it comes to QC testing your rapid diagnostic assays, you should expect the same level of quality. Microbiologics offers a variety of controls for women's health and STI testing featuring room temperature storage, pre-pooling of strains when applicable, and formats that mimic patient sample processing for ease of use.



## Safe, simple, stable controls

- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance



## BD MAX<sup>™</sup> CT/GC/TV 20-Day QC Panel -Catalog #8193

Contains 20 inactivated, pre-pooled microorganism pellets each comprised of the organisms recommended by the manufacturer for QC listed below. For use with BD MAX<sup>TM</sup> CT/GC/TV assay.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

- Chlamydia trachomatis
- Neisseria gonorrhoeae
- Trichomonas vaginalis

## Cepheid Xpert<sup>®</sup> CT/NG Control Panel - Catalog #8188

Contains 6 positive control swabs (pre-pooled) and 6 negative control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC listed below. For use with Xpert<sup>®</sup> CT/NG assay.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Positive Control (6 swabs):

- Chlamydia trachomatis
- Neisseria gonorrhoeae
- Human cells
- Negative Control (6 swabs): Human cells



## Cepheid Xpert® GBS LB Control Panel - Catalog #8194

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC listed below. For use with Xpert<sup>®</sup> GBS LB assay.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Positive Control (6 swabs): Streptococcus agalactiae Negative Control (6 swabs): Lactobacillus acidophilus

## Syndrome-Specific Panels for Women's Health and STI Testing



#### GBS QC Set (Live Culture) - Catalog #8164

Contains 4 KWIK-STIKs: 3 KWIK-STIKs of *Streptococcus* species (low, medium, and high levels) and 1 KWIK-STIK of *Lactobacillus acidophilus* (negative control).

- Low: Streptococcus spp. (Group B, lb) derived from ATCC<sup>®</sup> 12401™\*
- Medium: Streptococcus spp. (Group B, Ib) derived from ATCC<sup>®</sup> 12401™\*
- High: Streptococcus spp. (Group B, lb) derived from ATCC® 12401™\*
- Negative Control: Lactobacillus acidophilus derived from ATCC<sup>®</sup> 4356™\*



\*Look for the ATCC Licensed Derivative<sup>®</sup> Emblem for all products derived from ATCC<sup>®</sup> cultures. The ATCC Licensed Derivative Emblem, the ATCC Licenses Derivative Work Mark, and the ATCC Catalog Marks are trademarks of ATCC. Microbiologics, Inc. is licensed to use these trademarks and to sell products derived from ATCC<sup>®</sup> cultures.



# Human Papillomavirus (HPV) Control Panel - Catalog #8214

Contains 6 inactivated, pre-pooled microorganism pellets comprised of the organisms listed below. Control includes DNA sequences for E6/E7 amplification of HPV 16, 18 and 45 types.

Room temperature storage | For in vitro diagnostic use | Does not contain human beta globin | International restrictions may apply

- Recombinant HPV 16
- Recombinant HPV 18
- Recombinant HPV 45



## Human Papillomavirus (HPV) Verification Panel - Catalog #8216

Contains 20 inactivated, pre-pooled microorganism pellets each comprised of the organisms listed below.

Room temperature storage | For in vitro diagnostic use | Does not contain human beta globin | International restrictions may apply

- Recombinant HPV 16
- Recombinant HPV 18
- Recombinant HPV 45

## Syndrome-Specific Panels for Women's Health and STI Testing

## Trichomonas vaginalis (TV) Control Panel - Catalog #8189

Contains 6 positive control swabs and 6 negative control swabs (12 swabs total) comprised of the strains listed below, and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

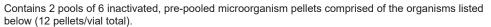
#### Positive Control (6 swabs):

- Trichomonas vaginalis
- Human cells

#### Negative Control (6 swabs):

- Neisseria gonorrhoeae
- Human cells

#### Vaginal Control Panel - Catalog #8209



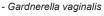
Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Pool 1 (6 vials/pellet)

- Lactobacillus crispatus

#### Pool 2 (6 vials/pellets)

- Atopobium vaginae
- Candida albicans
- Candida glabrata
- Candida krusei



- Recombinant BVAB2
- Trichomonas vaginalis



## Vaginal Verification Panel - Catalog #8208

Includes 2 boxes containing 20 individually packaged inactivated microorganism pellets of each pool listed below (120 vials/pellets total).

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Pool 1 (20 vials/pellets)

- Lactobacillus crispatus

#### Pool 2 (20 vials/pellets)

- Gardnerella vaginalis

#### Pool 3 (20 vials/pellets)

- Atopobium vaginae
- Candida albicans
- Gardnerella vaginalis
- Recombinant BVAB2

#### Pool 4 (20 vials/pellets)

- Atopobium vaginae
- Gardnerella vaginalis
- Recombinant BVAB2
- Trichomonas vaginalis

#### Pool 5 (20 vials/pellets)

- Atopobium vaginae
- Candida glabrata
- Gardnerella vaginalis
- Lactobacillus crispatus

#### Pool 6 (20 vials/pellets)

- Atopobium vaginae
- Candida krusei
- Gardnerella vaginalis
- Lactobacillus crispatus





## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains 5 unassayed lyophilized pellets packaged in individual vials for ease-of-use and to avoid cross contamination.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Inactivated Chlamydia trachomatis - Catalog #HE0035N

Inactivated Chlamydia trachomatis/Neisseria gonorrhoeae (CT/NG) - Catalog #HE0045N Inactivated Herpes Simplex Virus 1 - Catalog #HE0036N Inactivated Herpes Simplex Virus 2 - Catalog #HE0037N Inactivated Neisseria gonorrhoeae - Catalog #HE0041N Inactivated Trichomonas vaginalis - Catalog #HE0042N



## Synthetic Helix Elite Molecular Standards

For use as a positive control in molecular applications. Kits contain: 1 vial of dried synthetic consensus sequence DNA or RNA (approximately 100 reactions), 1 vial of molecular standard water for rehydration and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Human papillomavirus 16 Synthetic DNA - Catalog #HE0046S Fragments of E6,E7 and L1 genes | Dried DNA Preserved with Biomatrica DNAstable®

Human papillomavirus 18 Synthetic DNA - Catalog #HE0048S Fragments of E6, E7 and L1 genes | Dried DNA Preserved with Biomatrica DNAstable®

#### Treponema pallidum Synthetic DNA - Catalog #HE0047S

Fragments of 47 kDa protein and DNA Polymerase I genes | Dried DNA Preserved with Biomatrica DNAstable®



# EMERGING DISEASES AND OTHER PATHOGENS

With emerging diseases comes expanded pathogen testing and quality control needs. Microbiologics provides a variety of controls with features designed to simplify verification and QC including room temperature storage and pre-pooling of strains when applicable. From parasitology to patient/donor screening and testing, Microbiologics has your control needs covered.



## Safe, simple, stable controls

- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test-ready formats save you time and money
- Easy and economical storage, no freezing required
- Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance

## Helix Elite<sup>™</sup> for Emerging Disease and Other Pathogen Testing



#### Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains 5 unassayed lyophilized pellets packaged in individual vials for ease-of-use and to avoid cross contamination

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Inactivated Cytomegalovirus High Control - Catalog #HE0040N AD-169

Inactivated Cytomegalovirus Low Control - Catalog #HE0039N AD-169



#### Synthetic Helix Elite Molecular Standards

For use as a positive control in molecular applications. Kits contain: 1 vial of dried synthetic consensus sequence DNA or RNA (approximately 100 reactions), 1 vial of molecular standard water for rehydration and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

#### Cryptosporidium hominis Synthetic DNA - Catalog #HE0001S

18S rRNA gene of Cryptosporidium hominis | Dried DNA Preserved with Biomatrica DNAstable®

Cryptosporidium parvum Synthetic DNA - Catalog #HE0002S 18S rRNA gene of Cryptosporidium parvum | Dried DNA Preserved with Biomatrica DNAstable®

Cyclospora cayetanensis Synthetic DNA - Catalog #HE0025S 18S rRNA gene of Cyclospora cayetanensis | Dried DNA Preserved with Biomatrica DNAstable®

Dientamoeba fragilis Synthetic DNA - Catalog #HE0015S 18S rRNA gene of Dientamoeba fragilis | Dried DNA Preserved with Biomatrica DNAstable®

## Eastern Equine Encephalitis Virus Synthetic RNA - Catalog #HE0016S

Fragments from the NSP3 gene, the capsid protein gene, and the E2 glycoprotein gene | Dried DNA Preserved with Biomatrica DNAstable<sup>®</sup> | Export license required for shipping outside U.S.

Encephalitozoon intestinalis Synthetic DNA - Catalog #HE0004S 18S rRNA gene of Encephalitozoon intestinalis | Dried DNA Preserved with Biomatrica DNAstable®

## Entamoeba dispar Synthetic DNA - Catalog #HE0007S

18S rRNA gene of Entamoeba dispar | Dried DNA Preserved with Biomatrica DNAstable®

## Helix Elite<sup>™</sup> for Emerging Disease and Other Pathogen Testing



#### Synthetic Helix Elite Molecular Standards

For use as a positive control in molecular applications. Kits contain: 1 vial of dried synthetic consensus sequence DNA or RNA (approximately 100 reactions), 1 vial of molecular standard water for rehydration and a Certificate of Analysis.

Room temperature storage | For in vitro diagnostic use | International restrictions may apply

Entamoeba histolytica Synthetic DNA - Catalog #HE0006S 18S rRNA gene of Entamoeba histolytica | Dried DNA Preserved with Biomatrica DNAstable®

Enterocytozoon bieneusi Synthetic DNA - Catalog #HE0003S 18S rRNA gene of Enterocytozoon bieneusi | Dried DNA Preserved with Biomatrica DNAstable®

#### Giardia lamblia Synthetic DNA - Catalog #HE0005S

18S rRNA gene of Giardia lamblia | Dried DNA Preserved with Biomatrica DNAstable®

Plasmodium malariae Synthetic DNA - Catalog #HE0011S 18S rRNA A-type gene of Plasmodium malariae | Dried DNA Preserved with Biomatrica DNAstable®

Plasmodium ovale Synthetic DNA - Catalog #HE0010S 18S rRNA gene of asexual Plasmodium ovale | Dried DNA Preserved with Biomatrica DNAstable®

#### Plasmodium vivax Synthetic DNA - Catalog #HE0009S

18S rRNA gene of asexual Plasmodium vivax | Dried DNA Preserved with Biomatrica DNAstable®

#### West Nile Virus Synthetic RNA - Catalog #HE0014S

Fragments from the 5'UTR region, anchored capsid protein C gene, capsid protein C gene, membrane glycoprotein precursor prM gene, envelope protein E gene, nonstructural protein NS1, NS2A, NS3, and NS5 genes, and the 3' UTR region of the West Nile Virus genome | Dried DNA Preserved with Biomatrica DNAstable®



## Inactivated, Full Process Controls for Molecular Assays





## **Highlights:**

- Fully intact, non-viable process controls
- Used for every step of the molecular testing process: from extraction through detection
- Quick-dissolve lyophilized pellets may be reconstituted in buffer or transport medium and processed using the same protocols as the patient sample
- Independent external controls provide accurate, reliable results
- Test-ready format saves you time and money
- Easy and economical room temperature storage
- FDA listed and CE Marked as an *In Vitro* Diagnostic (IVD) Medical Device
- Technical Support experts available for guidance

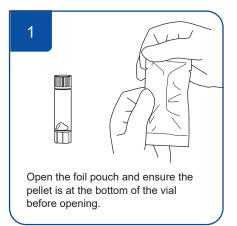
## **Applications:**

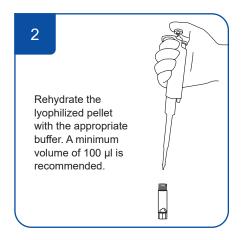
- Multiple targets available for gastrointestinal, respiratory, sexual health and transplant assays
- Sensitivity and Specificity
- Verification and Validation
- Assay Optimization
- Training
- Proficiency Testing
- Lot-to-Lot Testing of Assay
- External Assay QC

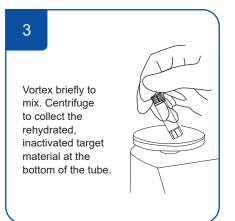
## **Package Details:**

- 5 qualitative lyophilized microorganism pellets packaged in individual vials
- Instructions for Use
- Certificate of Analysis









## 4

Use the appropriate volume for the assay being performed and follow labratory protocols or manufacturer instructions for processing a sample.

Note: Each pellet is intended as a single use test. Dilutions may be performed and used immediately. Storage of the rehydrated or diluted material is not recommended.

## Inactivated Helix Elite<sup>™</sup>

Catalog Number	Product Description	Comments
HE0026N	Inactivated Adenovirus 2	Strain Adenoid 6; IVD
HE0034N	Inactivated Chlamydia pneumoniae	Strain CWL-029; IVD; not available for shipment to Europe
HE0035N	Inactivated Chlamydia trachomatis	Strain LGV-2-434; IVD; not available for shipment to Europe
HE0045N	Inactivated Chlamydia trachomatis/ Neisseria gonorrhoeae (CT/NG)	Chlamydia trachomatis Strain LGV- 2-434; Neisseria gonorrhoeae Strain GL0071; IVD; not available for shipment to Europe
HE0040N	Inactivated Cytomegalovirus High Control	Strain AD-169; IVD; not available for shipment to Europe
HE0039N	Inactivated Cytomegalovirus Low Control	Strain AD-169; IVD; not available for shipment to Europe
HE0050N	Inactivated Enterovirus D68	IVD
HE0036N	Inactivated Herpes Simplex Virus 1	Strain MacIntyre; IVD
HE0037N	Inactivated Herpes Simplex Virus 2	Strain MS; IVD
HE0044N	Inactivated Influenza A/B and Respiratory Syncytial Virus	Influenza A (H1N1) Virus; Influenza B Virus, Strain Hong Kong/5/72; Respiratory Syncytial Virus (RSV) A, Strain Long; IVD
HE0029N	Inactivated Influenza A (H1N1) Virus	Strain Subtype H1N1; IVD
HE0043N	Inactivated Influenza A (H3N2) Virus	Strain Subtype H3N2; IVD
HE0030N	Inactivated Influenza B Virus	Strain Hong Kong/5/72; IVD
HE0041N	Inactivated Neisseria gonorrhoeae	Strain GL0071; IVD
HE0031N	Inactivated Parainfluenza Virus 1	Strain VP1; IVD
HE0032N	Inactivated Parainfluenza Virus 2	Strain Greer; IVD
HE0033N	Inactivated Parainfluenza Virus 3	Strain C243; IVD
HE0028N	Inactivated Respiratory Syncytial Virus A	Strain Long; IVD

## Inactivated Helix Elite<sup>™</sup>

Catalog Number	Product Description	Comments
HE0027N	Inactivated Rotavirus	Strain Simian rotavirus SA11; IVD; medium-high titer
HE0042N	Inactivated Trichomonas vaginalis	Strain GL0028; IVD
HE0038N	Inactivated Varicella Zoster Virus	Strain VZ-10; IVD



Synthetic Nucleic Acid RNA and DNA Sequences for Use as Amplification and Detection Controls in Molecular Assays





#### **Highlights:**

- Non-hazardous positive controls for molecular diagnostic assays
- Contains consensus sequences of diagnostic regions from the target's genome, representing the known genetic diversity of the microorganism
- Compatible with a variety of instruments, kits and applications
- Independent external controls provide accurate, reliable results
- Convenient test ready format saves time and money
- Room temperature storage is easy and economical
- FDA listed and CE Marked as an *In Vitro* Diagnostic (IVD) Medical Device
- Technical Support experts available for guidance

#### **Applications:**

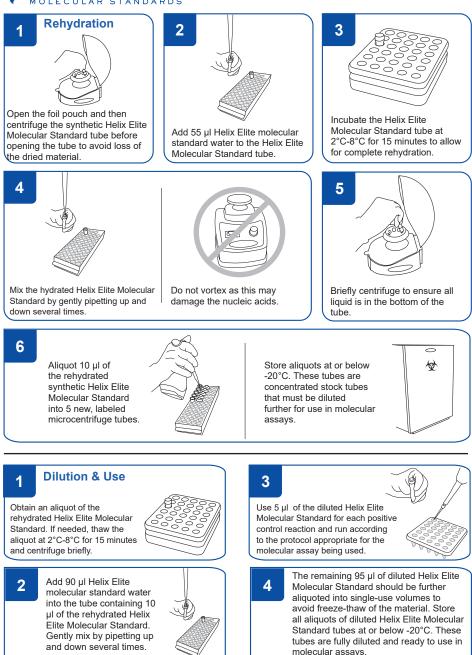
- · Sensitivity and Specificity
- Verification and Validation
- Assay Optimization
- Training
- Proficiency Testing
- Lot-to-Lot Testing

#### **Package Details:**

- 1 vial of dried, stabilized RNA or DNA (approximately 100 reactions)
- 1 vial of molecular standard water for rehydration
- Instructions for Use
- Certificate of Analysis



#### HELIX ELITE<sup>™</sup> ILLUSTRATED INSTRUCTIONS



# Synthetic Helix Elite<sup>™</sup>

Catalog Number	Product Description	Comments
HE0001S	<i>Cryptosporidium hominis</i> Synthetic DNA	18S rRNA gene of <i>Cryptosporidium hominis</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0002S	<i>Cryptosporidium parvum</i> Synthetic DNA	18S rRNA gene of <i>Cryptosporidium parvum</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0025S	<i>Cyclospora cayetanensis</i> Synthetic DNA	18S rRNA gene of <i>Cyclospora cayetanensis</i> ; Dried DNA preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0015S	<i>Dientamoeba fragilis</i> Synthetic DNA	18S rRNA gene of <i>Dientamoeba fragilis</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0016S	Eastern Equine Encephalitis Virus Synthetic RNA	Fragments from the NSP3 gene, the capsid protein gene, and the E2 glycoprotein gene; Dried RNA Preserved with Biomatrica RNAstable <sup>®</sup> ; Export license required for shipping this product outside the US; IVD
HE0004S	<i>Encephalitozoon intestinalis</i> Synthetic DNA	18S rRNA gene of <i>Encephalitozoon intestinalis</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0007S	<i>Entamoeba dispar</i> Synthetic DNA	18S rRNA gene of <i>Entamoeba dispar</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0006S	<i>Entamoeba histolytica</i> Synthetic DNA	18S rRNA gene of <i>Entamoeba histolytica</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0003S	<i>Enterocytozoon bieneusi</i> Synthetic DNA	18S rRNA gene of <i>Enterocytozoon bieneusi</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0005S	<i>Giardia lamblia</i> Synthetic DNA	18S rRNA of <i>Giardia lamblia</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0046S	Human papillomavirus 16 Synthetic DNA	Fragments of E6, E7 and L1 genes; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0048S	Human papillomavirus 18 Synthetic DNA	Fragments of E6,E7 and L1 genes; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD

# Synthetic Helix Elite<sup>™</sup>

Catalog Number	Product Description	Comments
HE0013S	Norovirus GI.1 Synthetic RNA	ORF1-ORF2 Junction of Norovirus GI.1; Dried RNA Preserved with Biomatrica RNAstable <sup>®</sup> ; IVD
HE0012S	Norovirus GII.4 Synthetic RNA	ORF1-ORF2 Junction of Norovirus GII.4; Dried RNA Preserved with Biomatrica RNAstable <sup>®</sup> ; IVD
HE0024S	Pan Mycoplasma Synthetic DNA	Consensus sequence of the 16S rRNA gene; Dried DNA preserved with Biomatrica DNAstable <sup>®</sup> ; Non-IVD (not intended for clinical use)
HE0008S	<i>Plasmodium falciparum</i> Synthetic DNA	18S rRNA gene of asexual <i>Plasmodium</i> <i>falciparum</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0011S	<i>Plasmodium malariae</i> Synthetic DNA	18S rRNA A-type gene of <i>Plasmodium malariae</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0010S	<i>Plasmodium ovale</i> Synthetic DNA	18S rRNA gene of asexual <i>Plasmodium</i> <i>ovale</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0009S	Plasmodium vivax Synthetic DNA	18S rRNA gene of asexual <i>Plasmodium</i> <i>vivax</i> ; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0047S	<i>Treponema pallidum</i> Synthetic DNA	Fragments of 47 kDa protein and DNA Polymerase I genes; Dried DNA Preserved with Biomatrica DNAstable <sup>®</sup> ; IVD
HE0014S	West Nile Virus Synthetic RNA	Fragments from the 5'UTR region, anchored capsid protein C gene, capsid protein C gene, membrane glycoprotein precursor prM gene, envelope protein E gene, nonstructural protein NS1, NS2A, NS3, and NS5 genes, and the 3' UTR region of the West Nile Virus genome; Dried RNA Preserved with Biomatrica RNAstable <sup>®</sup> ; IVD



#### Bundled Sets and Panels of Microorganism Strains for QC and Verification of Assays and Test Kits





#### **Highlights:**

- Each assay-specific QC set or panel contains the manufacturer recommended quality control strains for a particular assay in an easy-to-use format
- Each syndrome-specific QC set or panel contains common quality control strains for syndromic assays in an easy-to-use format
- One simple catalog number for fast, easy ordering
- Protects your reputation by providing documentation and assurance that the laboratory can consistently produce accurate results
- Ensures testing procedures and materials are working properly
- Convenient, test-ready format saves time and money
- Technical Support experts available for guidance

#### **Applications:**

- SQC of microbial identification and detection instruments and commercial diagnostic assays including biochemical, PCR and molecular technologies
- Verification and Validation
- · Routine quality control

#### **Package Details:**

- Live Culture QC Sets and Panels
- Inactivated Microorganism QC Sets and Panels
- Synthetic DNA/RNA QC Sets and Panels

## Assay-Specific QC Sets and Panels

Catalog Number	Product Description	Full Product Details
8193	BD MAX <sup>™</sup> CT/GC/TV 20-Day QC Panel - Chlamydia trachomatis - Neisseria gonorrhoeae - Trichomonas vaginalis	See page 24
8202	BD MAX <sup>™</sup> Enteric Parasite 20-Day QC Panel - Cryptosporidium parvum - Entamoeba histolytica surrogate - Giardia lamblia	See page 10
8204	BD MAX <sup>™</sup> Enteric Parasite Control Panel - Cryptosporidium parvum - Entamoeba histolytica surrogate - Giardia lamblia	See page 10
8200	Cepheid Xpert <sup>®</sup> C. difficile Control Panel (Inactivated Swab) Positive Control: Clostridium difficile (NAP1/027) Negative Control: Clostridium sordellii	See page 16
8188	Cepheid Xpert <sup>®</sup> CT/NG Control Panel (Inactivated Swab) Positive Control: - Chlamydia trachomatis Strain LGV-2-434 - Neisseria gonorrhoeae - Human cells Negative Control: Human cells	See page 24
8194	Cepheid Xpert® GBS LB Control Panel (Inactivated Swab) Positive Control: Streptococcus agalactiae Negative Control: Lactobacillus acidophilus	See page 24
8195	Cepheid Xpert® MRSA/MRSA NxG Control Panel (Inactivated Swab) Positive Control: Methicillin resistant Staphylococcus aureus Negative Control: Staphylococcus epidermidis	See page 16
8196	Cepheid Xpert® MRSA/SA Control Panel (Inactivated Swab) Positive Control 1: Methicillin resistant Staphylococcus aureus Positive Control 2: Staphylococcus aureus Negative Control: Staphylococcus epidermidis	See page 16
8199	Cepheid Xpert® Respiratory Control Panel (Inactivated Swab) Positive Control: - Influenza A (H1N1) Virus - Influenza A (H3H2) Virus - Influenza B Virus - Respiratory Syncytial Virus A Negative Control: Coxsackievirus B1	See page 20

Catalog Number			Full Product Details
8215	Blood Culture Identification (E - Acinetobacter baumannii - Candida albicans - Candida glabrata - Candida krusei - Candida krusei - Candida parapsilosis - Candida tropicalis - Enterobacter cloacae - Enterococcus faecalis (vanB) - Escherichia coli - Haemophilus influenzae - Klebsiella oxytoca	<ul> <li>SCID) Control Panel (Inactivated) <ul> <li>Klebsiella pneumoniae (KPC)</li> <li>Listeria monocytogenes serovar 7</li> <li>Neisseria meningitidis</li> <li>Proteus vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus (MRSA)</li> <li>Staphylococcus epidermidis (MSSE)</li> <li>Streptococcus agalactiae</li> <li>Streptococcus pneumoniae</li> <li>Streptococcus pyogenes</li> </ul> </li> </ul>	See page 5
8201	Blood Culture Identification (E (Inactivated) Pool 1: - Candida albicans - Candida krusei - Neisseria meningitidis - Pseudomonas aeruginosa - Staphylococcus aureus (MRSA) - Streptococcus agalactiae - Streptococcus agalactiae - Streptococcus pyogenes Pool 3: - Candida parapsilosis - Haemophilus influenzae - Klebsiella pneumoniae (KPC) - Proteus vulgaris - Serratia marcescens - Streptococcus pneumoniae	<ul> <li>BCID) Verification Panel</li> <li>Pool 2: <ul> <li>Acinetobacter baumannii</li> <li>Candida glabrata</li> <li>Candida tropicalis</li> <li>Enterobacter cloacae</li> <li>Enterococcus faecalis (vanB)</li> <li>Escherichia coli</li> <li>Klebsiella oxytoca</li> <li>Listeria monocytogenes serovar 7</li> <li>Staphylococcus epidermidis (MSSE)</li> </ul> </li> </ul>	See page 5
5229P	Blood Culture Identification (E (Live Culture) - Acinetobacter baumannii - Candida albicans - Candida glabrata - Candida krusei - Candida krusei - Candida tropicalis - Candida tropicalis - Enterobacter cloacae subsp. cloacae - Enterococcus faecalis - Escherichia coli - Haemophilus influenzae - Klebsiella oxytoca - Klebsiella pneumoniae	<ul> <li>SCID) Verification Panel</li> <li>Listeria monocytogenes</li> <li>Neisseria meningitidis</li> <li>Proteus mirabilis</li> <li>Pseudomonas aeruginosa</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus subsp. aureus</li> <li>Staphylococcus epidermidis</li> <li>Streptococcus agalactiae</li> <li>Streptococcus pneumoniae</li> <li>Streptococcus pyogenes</li> </ul>	See page 6

Catalog Number	Product Description	Full Product Details
8171	C. difficile QC Set (Live Culture) Positive Control: Clostridioides difficile Negative Control: Clostridioides difficile	See page 17
8187	Carbapenem-resistant Enterobacteriaceae (CRE) Control Panel (Inactivated Swab) Positive Control: - Escherichia coli - Klebsiella pneumoniae (4 strains) Negative Control: Escherichia coli	See page 17
8179	Enteric Bacterial Organism Set (Live Culture) - Acinetobacter baumannii - Campylobacter coli (2 strains) - Campylobacter jejuni subsp. jejuni (3 strains) - Escherichia coli serotype O103:H11 (STEC) - Escherichia coli serotype O104:H4 (STEC) - Escherichia coli serotype O114:H8 (STEC) - Escherichia coli serotype O145:NM (STEC) - Escherichia coli serotype O157:H7 (STEC) - Salmonella enterica subsp. arizonae - Salmonella enterica subsp. diarizonae - Salmonella enterica subsp. enterica serovar Enteritidis - Salmonella enterica subsp. enterica serovar Typhimurium - Shigella boydii - Shigella flexneri - Shigella flexneri - Shigella sonnei (2 strains)	See page 11
8182	Enteric Parasite Verification Panel (Synthetic) - Cryptosporidium spp. - Entamoeba histolytica - Giardia lamblia	See page 11
8184	Enteric Pathogens Control Panel (Inactivated Pellet) Pool 7/Positive Control: - Campylobacter jejuni - Escherichia coli (shiga toxin 1, shiga toxin 2) - Recombinant Norovirus GII.4 - Rotavirus SA11 - Salmonella enterica subsp. enterica Typhimurium - Shigella sonnei - Vibrio parahaemolyticus - Yersinia enterocolitica Pool 8/Negative Control: Clostridium difficile NAP1	See page 12

Catalog Number	Product Description	Full Product Details
8211	Enteric Viral Control Panel - Adenovirus 40 - Recombinant Astrovirus - Recombinant Norovirus GII - Rotavirus - Recombinant Sapovirus	See page 12
8210	Enteric Viral Verification Panel - Adenovirus 40 - Recombinant Astrovirus - Recombinant Norovirus GII - Recombinant Sapovirus - Rotavirus	See page 12
8190	Enterovirus (EV) Control Panel (Inactivated Swab) Positive Control: Coxsackievirus B1 Negative Control: Rhinovirus 1B	See page 20
8191	Extended Enteric Bacterial Verification Panel (Inactivated Pellet) - Campylobacter jejuni subsp. jejuni - Escherichia coli serotype O111:H8 (STEC) - Escherichia coli serovar O159:H34 (ETEC) - Plesiomonas shigelloides - Salmonella enterica subsp. enterica serovar Typhimurium - Shigella sonnei - Vibrio parahaemolyticus - Yersinia enterocolitica	See page 13
8219	Group A Streptococcus (GAS) Control Panel (Inactivated Swab) Positive Control: Streptococcus pyogenes Negative Control: Streptococcus dysgalactiae	See page 20
8164	GBS QC Set (Live Culture) - Low: Streptococcus species (Group B, lb) - Medium: Streptococcus species (Group B, lb) - High: Streptococcus species (Group B, lb) - Negative Control: Lactobacillus acidophilus	See page 25

Catalog Number	Product Description	Full Product Details
8181	Gram-Negative Blood Culture Control Panel (Inactivated Pellet) Pool 4: - Acinetobacter baumannii - Pseudomonas aeruginosa - Enterobacter cloacae (CTX-M) Pool 5: - Klebsiella pneumoniae (KPC) - Citrobacter freundii - Escherichia coli - Klebsiella pneumoniae (2 strains, CTX-M, NDM, VIM) Pool 6: - Klebsiella oxytoca - Klebsiella pneumoniae (OXA) - Proteus vulgaris	See page 7
5226P	Gram-Negative Blood Culture Control Panel (Live Culture)- Acinetobacter baumannii- Klebsiella oxytoca- Citrobacter freundii- Proteus vulgaris- Enterobacter cloacae- Pseudomonas aeruginosa- Escherichia coli- Serratia marcescens- Klebsiella pneumoniae (4 strains)	See page 7
8180	Gram-Positive Blood Culture Control Panel (Inactivated Pellet)Pool 1:Pool 3:- Enterococcus faecium (vanA)- Staphylococcus aureus (mecA)- Listeria monocytogenes- Enterococcus faecalis (vanB)- Staphylococcus epidermidis- Streptococcus pneumoniae- Staphylococcus lugdunensis- Streptococcus pneumoniaePool 2: Streptococcus anginosus- Streptococcus pyogenes	See page 8
5225P	Gram-Positive Blood Culture Control Panel (Live Culture)- Enterococcus faecalis- Streptococcus agalactiae- Enterococcus faecium- Streptococcus anginosus- Listeria monocytogenes- Streptococcus pneumoniae- Staphylococcus aureus- Streptococcus pyogenes- Staphylococcus epidermidis- Streptococcus pyogenes	See page 8
8214	Human Papillomavirus (HPV) Control Panel - Recombinant HPV 16 - Recombinant HPV 18 - Recombinant HPV 45	See page 25

Catalog Number	Product Description		Full Product Details
8216	Human Papillomavirus (HPV) Verific - Recombinant HPV 16 - Recombinant HPV 18 - Recombinant HPV 45	ation Panel	See page 25
8174	MRSA Organism Set (Live Culture) - Staphylococcus aureus (9 strains) - Staphylococcus epidermidis		See page 17
8205	Norovirus Control Panel (Inactivated Positive Control: - Recombinant Norovirus GI.1 (ORF1-ORF - Recombinant Norovirus GII.4 (ORF1-ORF Negative Control: Rotavirus	2)	See page 13
8178	SA Organism Set (Live Culture) - 11 strains: Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) - 2 strains: Methicillin Sensitive <i>Staphylococcus aureus</i> (MSSA) - 1 strain: Methicillin Sensitive <i>Staphylococcus epidermidis</i> (MSSE)		See page 18
	Live Culture Staphylococcus Controls - Catalog #0360MSSA: Staphylococcus aureus subsp. aureus (MSSA Live Culture Positive Control) - Catalog #0158MRSA: Staphylococcus aureus subsp. aureus (MRSA Live Culture Positive Control) - Catalog #0371MSSE: Staphylococcus epidermidis (MSSE Live Culture Positive Control)		See page 18
8217	Respiratory (21 Targets) Controls Pa - Adenovirus Type 6 - Bordetella parapertussis - Bordetella pertussis - Chlamydia pneumoniae - Coronavirus 229E - Recombinant Coronavirus HKU1 - Recombinant Coronavirus NL63 - Recombinant Coronavirus OC43 Strain 1 and Recombinant Coronavirus OC43 Strain 2 - Recombinant Human Metapneumovirus - Human Rhinovirus	<ul> <li>Influenza A</li> <li>Influenza A subtype H1</li> <li>Influenza A subtype H1-2009</li> <li>Influenza A subtype H3</li> <li>Influenza B</li> <li>Mycoplasma pneumoniae</li> <li>Parainfluenza Virus 1</li> <li>Parainfluenza Virus 2</li> <li>Parainfluenza Virus 3</li> <li>Recombinant Parainfluenza Virus 4a</li> <li>Respiratory Syncytial Virus</li> </ul>	See page 21

Catalog Number	Product Description		Full Product Details
8198	Respiratory Pathogens (16 Strains) (Inactivated Pellet) Pool 1/Positive Control: - Adenovirus (Adenoid 6) - Bordetella holmesii - Bordetella pertussis - Metapneumovirus - Parainfluenza 1 (VP1) - Parainfluenza 2 (Greer) - Parainfluenza 3 (C243) - Recombinant Human Metapneumovirus - Recombinant Parainfluenza 4 - Recombinant Rhinovirus	Control Panel Positive 2/Positive Control: - Bordetella parapertussis - Influenza A (H1N1) - Influenza A (H3N2) - Influenza B (Hong Kong/5/72) - Recombinant RSV B - RSV A (Long) Negative Control - Coronavirus	See page 21
8173	Strep B Organism (Live Culture) - 3 strains: Streptococcus agalactiae (B) - Streptococcus agalactiae (B, III) - Streptococcus anginosus (G) - 2 strains: Streptococcus dysgalactiae sub - Streptococcus pyogenes (A) - Streptococcus spp.(F,2) - Streptococcus spp. (B, Ib)	sp. <i>equisimilis</i> (C)	See page 18
8189	Trichomonas vaginalis (TV) Control Positive Control: - Trichomonas vaginalis - Human cells Negative Control: - Neisseria gonorrhoeae - Human cells	Panel (Inactivated Swab)	See page 26
8209	Vaginal Control Panel Pool 1: Lactobacillus crispatus Pool 2: - Atopobium vaginae - Candida albicans - Candida glabrata - Candida krusei - Gardnerella vaginalis - Recombinant BVAB2 - Trichomonas vaginalis		See page 26

Catalog Number	Product Description		Full Product Details
8208	Vaginal Verification Panel Pool 1: Lactobacillus crispatus Pool 2: Gardnerella vaginalis Pool 3: - Atopobium vaginae - Candida albicans - Gardnerella vaginalis - Recombinant BVAB2 Pool 4: - Atopobium vaginae - Gardnerella vaginalis - Recombinant BVAB2 - Trichomonas vaginalis	Pool 5: - Atopobium vaginae - Candida glabrata - Gardnerella vaginalis - Lactobacillus crispatus Pool 6: - Atopobium vaginae - Candida krusei - Gardnerella vaginalis - Lactobacillus crispatus	See page 26
8203	Vancomycin Resistant Enterococcus (VRE) Control Panel (Inactivated Swab) Positive Control: Enterococcus faecium Negative Control: Enterococcus faecalis		See page 18

# Microbiologics



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