Microbiologics

# MICROBIOLOGY CONTROL PRODUCTS 

MOLECULAR OC MICROORGANISMS

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## BLOOD CULTURE IDENTIFICATION PANELS



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


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

Contains six inactivated, pre-pooled pellets comprised of the microorganisms listed below. Also included is six blank negative control pellets.

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Klebsiella pneumoniae (KPC)
- Listeria monocytogenes serovar 7
- Neisseria meningitidis
- 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 one inactivated, pre-pooled microorganism pellet of each pool listed below (three vials total) and three vials of molecular hydration buffer. Once rehydrated, each vial contains enough material for five 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 (One pellet/kit)

- Candida albicans
- Candida krusei
- Neisseria meningitidis
- Pseudomonas aeruginosa
- Staphylococcus aureus (MRSA)
- Streptococcus agalactiae
- Streptococcus pyogenes

Pool 2 (One pellet/kit)

- Acinetobacter baumannii
- Candida glabrata
- Candida tropicalis
- Enterobacter cloacae
- Enterococcus faecalis (vanB)
- Escherichia coli
- Klebsiella oxytoca
- Listeria monocytogenes serovar 7
- Staphylococcus epidermidis (MSSE)

Pool 3 (One pellet/kit)

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


## BLOOD CULTURE IDENTIFICATION PANELS

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

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

- 0357 Acinetobacter baumannii derived from ATCC ${ }^{\circledR} 19606^{\text {TM }}$ *
- 0443 Candida albicans derived from ATCC ${ }^{\circledR} 10231^{\text {™ }}$
- 0737 Candida glabrata derived from ATCC ${ }^{\circledR} 15126^{\text {™* }}$
- 0809 Candida krusei derived from ATCC ${ }^{\circledR} 14243^{\text {TM }}$

- 0726 Candida parapsilosis derived from ATCC ${ }^{\circledR 220199^{\text {TM* }}}$
- 01036 Candida tropicalis derived from ATCC ${ }^{\circledR 13699^{\text {TM }}}$
- 0323 Enterobacter cloacae subsp. cloacae derived from ATCC ${ }^{\circledR} 13047^{\text {TM* }}$
- 0959 Enterococcus faecalis derived from ATCC ${ }^{\circledR}$ 51299™* (vanB positive, resistant to vancomycin)
- 0681 Escherichia coli derived from ATCC ${ }^{\circledR 11229^{\text {™ }} \text { * }}$
- 0441 Haemophilus influenzae derived from ATCC® ${ }^{\text {102 }} 10211^{\text {TM* }}$ (type b and beta lactamase negative)
- 0530 Klebsiella oxytoca derived from ATCC ${ }^{\circledR 13182^{\text {TM }} \text { * }}$
- 01005 Klebsiella pneumoniae derived from ATCC® BAA-1705TM*
- 0277 Listeria monocytogenes derived from ATCC ${ }^{\circledR} 19111^{\text {TM* }}$ (serotype 1)
- 0453 Neisseria meningitidis derived from ATCC ${ }^{\circledR} 13077^{\text {TM* }}$ (serogroup A)
- 0944 Proteus mirabilis derived from ATCC ${ }^{\circledR}$ 35659 ${ }^{\text {TM* }}$
- 0353 Pseudomonas aeruginosa derived from ATCC ${ }^{\circledR} 27853^{\text {TM }}$ *
- 0247 Serratia marcescens derived from ATCC ${ }^{\circledR} 13880^{\text {™ }}$ *
- 0496 Staphylococcus aureus subsp. aureus derived from ATCC ${ }^{\circledR} 33591^{\text {TM* }}$ (methicillin resistant)
- 0371 Staphylococcus epidermidis derived from ATCC ${ }^{\circledR} 12228^{\text {TM* }}$

- 0865 Streptococcus pneumoniae derived from ATCC ${ }^{\circledR} 10015^{\text {TM }}$ *



## BLOOD CULTURE IDENTIFICATION PANELS

## Blood Culture Identification 2 (BCID2) Verification Panel (Live Culture) - Catalog \#5258P

Contains two KWIK-STIKs of each strain listed below (70 KWIK-STIKs total):

- 0217 Staphylococcus lugdunensis derived from ATCC® 49576™
- 0247 Serratia marcescens derived from ATCC® 13880™
- 0277 Listeria monocytogenes derived from ATCC® $19111^{\text {тм }}$
- 0320 Bacteroides fragilis derived from ATCC® $25285^{\text {™ }}$
- 0323 Enterobacter cloacae subsp. cloacae derived from ATCC® $13047^{\text {TM }}$
- 0353 Pseudomonas aeruginosa derived from ATCC® 27853™
- 0357 Acinetobacter baumannii derived from ATCC® $1^{19606}{ }^{\text {™ }}$
- 0371 Staphylococcus epidermidis derived from ATCC® 12228™
- 0385 Streptococcus pyogenes derived from ATCC® 19615™
- 0399 Klebsiella aerogenes derived from ATCC® 35029тм
- 0439 Streptococcus agalactiae derived from ATCC® $12386{ }^{\text {™ }}$
- 0441 Haemophilus influenzae derived from ATCC® $10211^{\text {TM }}$
- 0443 Candida albicans derived from ATCC® 10231™
- 0453 Neisseria meningitidis derived from ATCC® $13077^{\text {TM }}$
- 0496 Staphylococcus aureus subsp. aureus derived from ATCC® 33591 ™
- 0530 Klebsiella oxytoca derived from ATCC® 13182™
- 0726 Candida parapsilosis derived from ATCC® $22019^{\text {™ }}$
- 0737 Candida glabrata derived from ATCC® $15126^{\text {™ }}$
- 0759 Stenotrophomonas maltophilia derived from ATCC® 17666™
- 0809 Candida krusei derived from ATCC® $14243^{\text {TM }}$
- 0865 Streptococcus pneumoniae derived from ATCC® 10015™
- 0901 Salmonella enterica subsp. arizonae derived from ATCC® 13314™
- 0944 Proteus mirabilis derived from ATCC® 35659 тм
- 0959 Enterococcus faecalis derived from ATCC® 51299тМ
- 0985 Cryptococcus neoformans derived from ATCC® $66031^{\text {TM }}$
- 01005 Klebsiella pneumoniae derived from ATCC® BAA-1705™
- 01036 Candida tropicalis derived from ATCC® 1369™
- 01051 Cryptococcus gattii derived from ATCC® MYA-4560™
- 01112 Klebsiella pneumoniae derived from NCTC 13440
- 01136 Escherichia coli derived from NCTC 13476
- 01143 Enterococcus faecium derived from NCTC 12204
- 01145 Klebsiella pneumoniae derived from NCTC 13443
- 01241 Klebsiella pneumoniae derived from CDC AR-0039
- 01256 Candida auris derived from CDC B11903
- 01259 Escherichia coli derived from CDC AR-0346

[^0]
## BLOOD CULTURE IDENTIFICATION PANELS



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

Contains five inactivated microorganism pellets of each pool listed below (15 pellets/kit total).

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

Pool 1 (Five pellets/kit)

- Enterococcus faecium
- Listeria monocytogenes
- Staphylococcus epidermidis
- Staphylococcus lugdunensis

Pool 2 (Five pellets/kit)

- Streptococcus agalactiae
- Streptococcus anginosus
- Streptococcus pyogenes

Pool 3 (Five pellets/kit)

- Staphylococcus aureus
- Enterococcus faecalis
- Streptococcus pneumoniae


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

Contains two 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


## BLOOD CULTURE IDENTIFICATION PANELS



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

Contains five inactivated microorganism pellets of each pool listed below (15 pellets/kit total).

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

Pool 4 (Five pellets/kit)

- Acinetobacter baumannii
- Pseudomonas aeruginosa
- Enterobacter cloacae

Pool 5 (Five pellets/kit)

- Klebsiella pneumoniae
- Citrobacter freundii
- Escherichia coli
- Klebsiella pneumoniae
- Klebsiella pneumoniae


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

Contains two 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



## GASTROINTESTINAL (GI)

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.

## ASSAY-SPECIFIC PANELS FOR GI TESTING



## BD MAX ${ }^{\text {™ }}$ Enteric Parasite 20-Day OC Panel - Catalog \#8202

Contains 20 inactivated, pre-pooled microorganism pellets comprised of the organisms recommended by the manufacturer for QC listed below ( 20 pellets/ kit total). For use with the BD MAX ${ }^{\text {TM }}$ Enteric Parasite Panel

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Cryptosporidium parvum
- Giardia lamblia
- Entamoeba histolytica surrogate


## BD MAX ${ }^{\text {TM }}$ Enteric Parasite Control Panel -

 Catalog \#8204Contains six inactivated, pre-pooled microorganism pellets comprised of the organisms recommended by the manufacturer for QC listed below (six pellets/ kit total). For use with the BD MAX ${ }^{\text {TM }}$ Enteric Parasite Panel

- Room temperature storage
- For in vitro diagnostic use

- International restrictions may apply
- Cryptosporidium parvum
- Giardia lamblia
- Entamoeba histolytica surrogate


## GASTROINTESTINAL PANELS

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

Contains two KWIK-STIKs of each strain listed below (16 KWIK-STIKs total).

- Export license required for shipping outside the U.S.
- UN2814 Hazardous
- 0356 Shigella flexneri derived from ATCC® 12022™*
- 0363 Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 14028™
- 0446 Shigella sonnei derived from ATCC® 9290™
- 0481 Campylobacter jejuni subsp. jejuni derived from ATCC® $33291^{\text {TM* }}$
- 0595 Salmonella bongori derived from ATCC® $43975^{\text {TM* }}$
- 01023 Campylobacter coli derived from ATCC® 33559TM*
- 01102 Escherichia coli serotype O111:H8 derived from CDC 2010C-3114 (STEC)
- 01204 Escherichia coli (O157:H7) derived from ATCC® $43890^{\text {TM * }}$ (STEC)



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

Contains five vials of dried synthetic DNA and one vial of molecular standard water for rehydration. 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
- Not CE Marked


## Enteric Parasite Control Panel (Inactivated Pellet) - Catalog \#8230

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

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

- Cryptosporidium parvum
- Entamoeba histolytica surrogate
- Giardia lamblia


## GASTROINTESTINAL PANELS



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

Contains five inactivated microorganism pellets of each pool listed below (10 pellets/kit total).

- Refrigerated storage
- For in vitro diagnostic use
- Export license required for shipping outside the U.S.

Pool 7/Positive Control (Five pellets/kit)

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

Pool 8/Negative Control (Five pellets/kit)

- Clostridioides difficile (NAP1)



## Enteric Viral Verification Panel - Catalog \#8210

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

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Adenovirus 40
- Recombinant Astrovirus
- Recombinant Norovirus GII
- Rotavirus
- Recombinant Sapovirus


## Enteric Viral Control Panel - Catalog \#8211



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

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Adenovirus 40 - Rotavirus
- Recombinant Astrovirus
- Recombinant Norovirus GII


## GASTROINTESTINAL PANELS



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

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

- Room temperature storage
- For in vitro diagnostic use
- Export license required for shipping outside the U.S.
- Salmonella enterica serovar Typhimurium derived from NCTC 74
- Shigella sonnei derived from NCTC 12984
- Escherichia coli derived from CDC 2010C-3114
(STEC, serotype O111:H8, eae positive, stx 1 and/or stx 2 positive)
- Campylobacter jejuni derived from NCTC 11322
- Plesiomonas shigelloides derived from NCTC 10363
- Yersinia enterocolitica derived from NCTC 11174 (biotype 2, serotype 9)
- Escherichia coli derived from NCTC 11602 (ETEC, serovar o159:h34)
- Vibrio parahaemolyticus derived from NCTC 13209 (VP81, serotype O3:K6)


## Comprehensive Enteric Bacterial Control Panel (Inactivated Pellet) - Catalog \#8231

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

- Room temperature storage
- For in vitro diagnostic use

- Export license required for shipping outside the U.S.
- Salmonella enterica serovar Typhimurium derived from NCTC 74
- Shigella sonnei derived from NCTC 12984
- Escherichia coli derived from CDC 2010C-3114
(STEC, serotype O111:H8, eae positive, stx 1 and/or stx 2 positive)
- Campylobacter jejuni derived from NCTC 11322
- Plesiomonas shigelloides derived from NCTC 10363
- Yersinia enterocolitica derived from NCTC 11174 (biotype 2, serotype 9)
- Escherichia coli derived from NCTC 11602 (ETEC, serovar o159:h34)
- Vibrio parahaemolyticus derived from NCTC 13209 (VP81, serotype O3:K6)


## GASTROINTESTINAL PANELS

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

Contains six positive and six negative inactivated control swabs (12 swabs total) comprised of the strains listed below.

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


Positive Control (Six swabs/kit):

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

Negative Control (Six swabs/kit):

- Rotavirus


## Gastrointestinal (22 Targets) Control Panel (Inactivated Pellet) - Catalog \#8236

Contains six pellets of Positive Control 1, six pellets of Positive Control 2, and 12 negative control pellets ( 24 pellets/kit total). The negative control pellets are blank and do not contain microorganisms.

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

Positive Control 1 (Six pellets/kit)

- Campylobacter jejuni
- Clostridioides (Clostridium) difficile
- Plesiomonas shigelloides
- Yersinia enterocolitica
- Escherichia coli (STEC)
- Escherichia coli (EAEC) surrogate
- Escherichia coli (O157)
- Shigella sonnei
- Cryptosporidium parvum
- Adenovirus
- Sapovirus surrogate

Positive Control 2 (Six pellets/kit)

- Salmonella Typhimurium
- Vibrio cholerae
- Escherichia coli (EPEC)
- Escherichia coli (ETEC)
- Cyclospora cayetanensis surrogate
- Entamoeba histolytica surrogate
- Giardia lamblia
- Astrovirus surrogate
- Norovirus Gl surrogate
- Norovirus GII surrogate
- Rotavirus A

Negative Control (Twelve pellets/kit)

- Blank pellets



## HELIX ELITE ${ }^{\text {M }}$ MOLECULAR STANDARDS FOR (GI) TESTING



## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains five 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
- Strain Simian Rotavirus SA11


## Synthetic Helix Elite Molecular Standards

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

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Dried RNA Preserved with Biomatrica RNAstable ${ }^{\circledR}$

Norovirus Gl. 1 Synthetic RNA Catalog \#HE0013S

- ORF1-ORF2 Junction of Norovirus GI. 1

Norovirus GII. 4 Synthetic RNA Catalog \#HE0012S

- ORF1-ORF2 Junction of Norovirus GII. 4



## HEALTHCARE-ASSOCIATED INFECTIONS (HAls)

When it comes to detecting and identifying healthcare-associated infections (HAls), there is no room for error. Microbiologics offers simple, reliable controls for HAl testing in clinical laboratories to ensure procedures and materials are working properly.

## ASSAY-SPECIFIC PANELS FOR HAI TESTING

## Cepheid Xpert ${ }^{\circledR}$ C. difficile/Epi Control Panel <br> (Inactivated Swab) - Catalog \#8200

Contains six positive and six negative inactivated control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC. For use with Xpert ${ }^{\circledR}$ C. difficile/Epi assay

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Not CE Marked

Positive Control (six swabs/kit):

- Clostridium difficile (NAP1/027)

Negative Control (six swabs/kit):

- Clostridium sordellii


## Cepheid Xpert ${ }^{\oplus}$ MRSA NxG Control Panel - Catalog \#8195

Contains six positive and six negative inactivated control swabs (12 swabs total) comprised of the organisms recommended by the manufacturer for QC. For use with Xpert ${ }^{\oplus}$ MRSA NxG assay.

Positive Control (Six swabs):

- Methicillin-resistant Staphylococcus aureus
Negative Control (Six swabs):
- Staphylococcus epidermidis
- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Not CE Marked


## Cepheid Xpert ${ }^{\circledR}$ SA Nasal Complete Control Panel - Catalog \#8196

Contains 12 positive and six negative inactivated control swabs (18 swabs total) comprised of the organisms recommended by the manufacturer for QC. For use with Xpert ${ }^{\circledR}$ SA Nasal Complete assay.

Positive Control 1 (Six swabs/kit):

- Methicillin-resistant Staphylococcus aureus

Positive Control 2 (Six swabs/kit):

- Staphylococcus aureus

Negative Control (Six swabs/kit):

- Staphylococcus epidermidis
- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Not CE Marked


## SYNDROME-SPECIFIC PANELS FOR HAI TESTING



## C. difficile Verification Panel (Live Culture) - Catalog \#8243

Contains two KWIK-STIKs of each strain listed below (four KWIK-STIKs total).

- 0527 Clostridioides difficile ATCC® $700057^{\text {TM }}$ *
- 0329 Clostridioides difficile ATCC® 9689T*

ATCC Licensed $\left.{ }_{\text {Derivative }}\right)^{*}$ *Look for the ATCC Licensed Derivative ${ }^{\oplus}$ Emblem for all products derived from ATCC ${ }^{\oplus}$ 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 ${ }^{\oplus}$ cultures.

## C. difficile Control Panel (Inactivated Swab) - Catalog \#8227

Contains six positive and six negative inactivated control swabs.
Positive Control (Six swabs/kit):

- Clostridioides difficile

Negative Control (Six swabs/kit):

- Clostridium sordellii
- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply



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

Contains one KWIK-STIK ${ }^{\text {TM }}$ unit of Clostridioides difficile derived from ATCC® 9689TM* and one KWIK-STIK ${ }^{\text {TM }}$ unit of Clostridioides difficile derived from ATCC® $700057^{\text {TM* }}$ two total.

[^1]
## SYNDROME-SPECIFIC PANELS FOR HAI TESTING

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

Contains six pre-pooled positive and six negative inactivated control swabs (12 swabs total) comprised of the organisms listed below.

Positive Control (Six swabs/kit):

- Escherichia coli derived from NCTC 13476 (IMP-type)
- Klebsiella pneumoniae derived from NCTC 13440 (VIM-1, Metallo-beta-lactamase positive)
- Klebsiella pneumoniae derived from NCTC 13443 (DM-1 positive, New Delhi metallo-beta-lactamase)
- Klebsiella pneumoniae derived from NCTC 13438 (Produces carbapenemase KPC-3)
- Klebsiella pneumoniae derived from NCTC 13442 (OXA-48)

Negative Control (Six swabs/kit):

- Escherichia coli derived from NCTC 11954
- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply



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

Contains four KWIK-STIK ${ }^{\text {TM }}$ units of each microorganism listed below.

- Staphylococcus aureus derived from ATCC® $33591^{\text {TM* }}$
- Staphylococcus aureus derived from ATCC® 700699TM*
- Staphylococcus aureus derived from ATCC® $43300^{\text {TM }}$ *
- Staphylococcus aureus derived from ATCC® 700698™*
- Staphylococcus aureus derived from NCTC 12493
- Staphylococcus aureus subsp. aureus derived from NCTC 12973
- Staphylococcus aureus derived from ATCC® 6538TM*
- Staphylococcus aureus derived from ATCC® $29213^{\text {TM }}$ *
- Staphylococcus aureus subsp. aureus derived from ATCC® 33862™*
- Staphylococcus epidermidis derived from ATCC® 51625™*


## 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)
- Two strains/KWIK-STIKs: Methicillin-Sensitive Staphylococcus aureus (MSSA)
- One strain/KWIK-STIKs: Methicillin-Sensitive Staphylococcus epidermidis (MSSE)


## SYNDROME-SPECIFIC PANELS FOR HAI TESTING

## Live Culture Staphylococcus Controls

Each kit contains two KWIK-STIKs at E4 concentration.

- Staphylococcus aureus subsp. aureus derived from ATCC® $25923^{\text {TM* }}$ (MSSA Live Culture Positive Control) - Catalog \#0360MSSA
- Staphylococcus aureus subsp. aureus derived from ATCC ${ }^{\circledR}$ 700699TM* (MRSA Live Culture Positive Control) - Catalog \#0158MRSA
- Staphylococcus epidermidis derived from ATCC ${ }^{\circledR}$ 122288 ${ }^{\text {TM* }}$
(MSSE Live Culture Positive Control) - Catalog \#0371MSSE



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

Contains six positive and six negative inactivated control swabs (12 swabs total) comprised of the strains listed below.

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

Positive Control (Six swabs/kit): Enterococcus faecium (vanA-type glycopeptide resistance and Vancomycin resistant)


Negative Control (Six swabs/kit): Enterococcus faecalis

## Methicillin-Resistant Staphylococcus aureus (MRSA) Inactivated Swab - Catalog \#HE0053NS

Contains six individually packaged inactivated control swabs containing Methicillin-Resistant Staphylococcus aureus (MRSA).

Room temperature storage I International restrictions may apply

## Methicillin-Susceptible Staphylococcus aureus (MSSA) Inactivated Swab - Catalog \#HE0054NS

Contains six individually packaged inactivated control swabs containing Methicillin-Susceptible Staphylococcus aureus (MSSA).

Room temperature storage I International restrictions may apply

## Methicillin-Susceptible Staphylococcus epidermidis (MSSE) Inactivated Swab Catalog \#HE0055NS

Contains six individually packaged inactivated control swabs containing Methicillin-Susceptible Staphylococcus epidermidis (MSSE)

Room temperature storage I International restrictions may apply



## RESPIRATORY PATHOGENS

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.

## ASSAY-SPECIFIC PANELS FOR RESPIRATORY TESTING

## Cepheid Xpert ${ }^{\circledR}$ Respiratory Control Panel (Inactivated Swab) - Catalog \#8199

Contains six pre-pooled positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below. For use with Cepheid Xpert® Xpress Flu/RSV assay.

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Not CE Marked

Positive Control (Six swabs/kit):

- Influenza A (H1N1) Virus
- Influenza A (H3H2) Virus
- Influenza B Virus
- Respiratory Syncytial Virus A


Negative Control (Six swabs/kit): Coxsackievirus B1

## SYNDROME-SPECIFIC PANELS FOR RESPIRATORY TESTING

## Enterovirus (EV) Control Panel (Inactivated Swab) <br> - Catalog \#8190

Contains six positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below.

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

Positive Control (Six swabs/kit): Coxsackievirus B1
Negative Control (Six swabs/kit): Rhinovirus 1B


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

Contains six positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below.

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

Positive Control (Six swabs/kit): Streptococcus pyogenes
Negative Control (Six swabs/kit): Streptococcus dysgalactiae

## SYNDROME-SPECIFIC PANELS FOR RESPIRATORY TESTING



## Respiratory (21 Targets) Control Panel - Catalog \#8217

Contains six pre-pooled positive and six negative, inactivated microorganism pellets ( 12 pellets/kit). The negative control pellets are blank and do not contain organisms.

- 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 (4 Targets) Control Panel (Inactivated Swab) - Catalog \#8233

Contains six pre-pooled positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below.

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


## Positive Control (Six swabs/kit):

- Influenza A (H1N1) Virus
- Influenza A (H3N2) Virus
- Influenza B Virus
- Respiratory Syncytial Virus A

Negative Control (Six swabs/kit):


- Coxsackievirus B1


## SYNDROME-SPECIFIC PANELS FOR RESPIRATORY TESTING

## Rifampicin-Resistant Mycobacterium tuberculosis Positive <br> Control Panel (Inactivated Pellet) - Catalog \#8206

Contains six inactivated, pre-pooled microorganism pellets
comprised of the organisms listed below (18 pellets/kit).

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

Positive Control 1 (Six pellets/kit):

- Mycobacterium bovis (MTB) (BCG)

Positive Control 2 (Six pellets/kit):

- Mycobacterium tuberculosis (MTB/RIF) surrogate (rpoB: L511P, H526Y, S531L)

Positive Control 3 (Six pellets/kit):

- Mycobacterium tuberculosis (MTB/RIF) surrogate (rpoB: D516V, S522L)


Rifampicin-Resistant Mycobacterium tuberculosis Negative Control (Inactivated Pellet) - Catalog \#8238

Contains six inactivated pellets of Mycobacterium gordonae (six pellets/kit).

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



## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains five unassayed inactivated microorganism pellets packaged in individual vials for ease-of-use.

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

Inactivated Adenovirus 2 -
Catalog \#HE0026N

- Strain Adenoid 6

Inactivated Respiratory Syncytial
Virus A - Catalog \#HE0028N

- Strain Long

Inactivated Influenza A (H1N1) Virus

- Catalog \#HE0029N
- Strain subtype H1N1


## Inactivated Influenza B Virus Catalog \#HEOO30N

- 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 <br> - Strain C243

Inactivated Chlamydia pneumoniae Catalog \#HE0034N

## Inactivated Varicella Zoster Virus Catalog \#HE0038N

- Strain VZ-10


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

- Strain subtype H3N2

Inactivated Influenza A/B and<br>Respiratory Syncytial Virus - Catalog \#HE0044N<br>Each pellet contains:<br>- Influenza A (H1N1) Virus<br>- Influenza B Virus, Strain Hong Kong/5/72<br>- Respiratory Syncytial Virus (RSV) A, Strain Long

Inactivated Enterovirus D68-Catalog \#HE0050N


## Inactivated SARS-CoV-2 Whole Virus (Pellet) - Catalog \#HE0065N

Contains five individually packaged lyophilized pellets made with whole inactivated SARS-CoV-2 virus (Isolate SARS-CoV-2/USA/WA1/2020) and inactivated human lung epithelial cells. Each kit also contains five vials of molecular standard water for rehydration.

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

SARS-CoV-2 Whole Virus can be used to monitor the extraction, amplification and detection of SARS-CoV-2 molecular applications.

## Inactivated SARS-CoV-2 Whole Virus (Swab) - Catalog \#HE0066NS

Contains six individually packaged lyophilized swabs made with whole inactivated SARS-CoV-2 virus (Isolate SARS-CoV-2/USA/WA1/2020) and inactivated human lung epithelial cells. Each kit also contains five vials of molecular standard water for rehydration.

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

SARS-CoV-2 Whole Virus can be used to monitor the extraction, amplification and detection of SARS-CoV-2 molecular applications.



## SARS-CoV-2 Process Control (Pellet) - Catalog \#HE0062S

Contains five individually packaged lyophilized pellets made with RNA transcripts containing diagnostically relevant targets (CDC and WHO consensus sequences) encapsulated in a phage protein and human lung epithelial cells. See website for complete list of targets. Each kit also contains five vials of molecular standard water for rehydration.

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

SARS-CoV-2 Process Control can be used to monitor the extraction, amplification and detection of SARS-CoV-2 molecular applications

## SARS-CoV-2 Process Control (Swab) - Catalog \#HE0063S

Contains five individually packaged inactivated lyophilized swabs made with RNA transcripts containing diagnostically relevant targets (CDC and WHO consensus sequences) encapsulated in a phage protein and human lung epithelial cells. See website for complete list of targets.

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

SARS-CoV-2 Process Control can be used to monitor the extraction, amplification and detection of SARS-CoV-2 molecular applications



## SARS-CoV-2 Synthetic RNA (N Gene Targets) - Catalog \#HE0060S

Contains one vial of dried synthetic RNA and one vial of molecular standard water for rehydration. The SARS-CoV-2 synthetic RNA material is a 1044-nucleotide portion of the SARS-CoV-2 N (nucleocapsid) gene. It contains three markers N1, N2 and N3 that are commonly used in diagnostic assays.

## Synthetic Helix Elite Molecular Standards

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

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

SARS-CoV-2 Synthetic RNA (N/E/RdRp/S Gene Targets) - Catalog \#HE0061S

Contains one vial of dried synthetic RNA and one vial of molecular standard water for rehydration. See website for complete list of targets.


## WOMEN'S HEALTH AND STI

Your laboratory is committed to elevating the standard of care for women's health and sexually transmitted infections (STls) 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, prepooling of strains, and formats that mimic patient sample processing for ease of use.

## ASSAY-SPECIFIC PANELS FOR WOMEN'S HEALTH AND STI TESTING



## BD MAX ${ }^{\text {TM }}$ CT/GC/TV 20-Day OC 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 ${ }^{\text {TM }}$ CT/GC/TV assay.

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Chlamydia trachomatis
- Neisseria gonorrhoeae
- Trichomonas vaginalis


## Cepheid Xpert ${ }^{\circledR}$ CT/NG Control Panel - Catalog \#8188

Contains six pre-pooled positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below. For use with Xpert® CT/NG assay.

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Not CE Marked

Positive Control (Six swabs/kit):

- Chlamydia trachomatis (LGV-2-434)
- Neisseria gonorrhoeae

Negative Control (Six swabs/kit):

- Human cells


Product image applies to both CAT \#8188 and CAT \#8194

## Cepheid Xpert ${ }^{\circledR}$ GBS LB Control Panel - Catalog \#8194

Contains six positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below. For use with Xpert ${ }^{\circledR}$ GBS LB assay.

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Not CE Marked

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

## CT/GC/TV Control Panel (Inactivated Pellet) Catalog \#8228

Contains six inactivated, pre-pooled pellets comprised of the microorganisms listed below (six pellets/kit):

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Chlamydia trachomatis
- Neisseria gonorrhoeae

- Trichomonas vaginalis


## Chlamydia trachomatis/Neisseria gonorrhoeae (CT/NG) Control Panel (Inactivated Swab) - Catalog \#8229

Contains six pre-pooled positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below.


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

Positive Control (Six swabs/kit):

- Chlamydia trachomatis
- Neisseria gonorrhoeae

Negative Control (Six swabs/kit):

- Human cells


## GBS Verification Panel (Live Culture) - Catalog \#8173

Contains two KWIK-STIKs of each strain listed below (12 KWIK-STIKs total).

- Streptococcus agalactiae (B) derived from ATCC® $12386^{\text {TM }}$ *
- Streptococcus agalactiae (B, III) derived from ATCC® 12403™*
- Streptococcus anginosus (G) derived from NCTC 10713
- Streptococcus dysgalactiae subsp. equisimilis (C) derived from ATCC® 12388™*
- Streptococcus pyogenes (A) derived from ATCC® 19615™*
- Streptococcus agalactiae (III) derived from ATCC® BAA-22™*
*Look for the ATCC Licensed Derivative ${ }^{\otimes}$ Emblem for all products derived from ATCC ${ }^{\star}$ 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 ${ }^{\oplus}$ cultures.


## Group B Streptococcus (GBS) Control Panel (Inactivated Swab) - Catalog \#8232

Contains six positive and six negative, inactivated control swabs (12 swabs/kit) comprised of the microorganisms listed below.

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

Positive Control (Six swabs/kit): Streptococcus agalactiae


## SYNDROME-SPECIFIC PANELS FOR WOMEN'S HEALTH AND STI TESTING



## GBS OC Set (Live Culture) - Catalog \#8164

Each set contains a low, medium and high level of the same microorganism and one negative control (Four KWIK-STIKs/kit).

- Low: Streptococcus agalactiae (Group B, Ib) derived from ATCC ${ }^{\circledR} 12401^{\text {TM* }}$
- Medium: Streptococcus agalactiae (Group B, Ib) derived from ATCC ${ }^{\otimes} 12401^{\text {TM* }}$
- High: Streptococcus agalactiae (Group B, lb) derived from ATCC ${ }^{\circledR}$ 12401 ${ }^{\text {TM }}$ *
- Negative Control: Lactobacillus acidophilus derived from ATCC ${ }^{\circledR}$ 4356™*

[^2]

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



Contains six 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
- HPV 16 gene target E6/E7
- HPV 18 gene target E6/E7
- HPV 45 gene target E6/E7


## Multi-Strain Human Papillomavirus (HPV) Verification Panel (Inactivated Pellet) - Catalog \#8235

Contains 20 inactivated, pre-pooled pellets comprised of human cells and the microorganisms listed below (20 pellets/kit):

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- HPV 16 gene target E6/E7 and L1
- HPV 18 gene target E6/E7 and L1
- HPV 31 gene target E6/E7 and L1
- HPV 45 gene target E6/E7 and L1
- HPV 68 gene target E6/E7 and L1
- Human Cells


## Multi-Strain Human Papillomavirus (HPV) Control Panel (Inactivated Pellet) - Catalog \#8234

Contains six inactivated, pre-pooled pellets comprised of human cells and the microorganisms listed below (six pellets/kit):

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- HPV 16 gene target E6/E7 and L1
- HPV 18 gene target E6/E7 and L1
- HPV 31 gene target E6/E7 and L1
- HPV 45 gene target E6/E7 and L1
- HPV 68 gene target E6/E7 and L1
- Human Cells



## Mycoplasma genitalium Control Panel (Inactivated Pellet) - Catalog \#8240

Contains six inactivated, pre-pooled pellets comprised of the microorganisms listed below each control listed below (12 pellets/kit).

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

Positive Control (Six pellets/kit):

- Mycoplasma genitalium

Negative Control (Six pellets/kit):


- Blank pellet


## SYNDROME-SPECIFIC PANELS FOR WOMEN'S HEALTH AND STI TESTING

## Trichomonas vaginalis (TV) Control Panel (Inactivated Swab) - Catalog \#8189

Contains six positive (pre-pooled) and six negative inactivated control swabs (12 swabs/kit) comprised of the strains listed below.

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

Positive Control (Six swabs/kit):

- Trichomonas vaginalis
- Human cells

Negative Control (Six swabs/kit):

- Neisseria gonorrhoeae
- Human cells



## Vaginal Verification Panel - Catalog \#8208

Includes two boxes containing 20 individually packaged inactivated microorganism pellets of each pool listed below ( 120 pellets/kit).

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

Pool 1 (20 pellets/kit)

- Lactobacillus crispatus

Pool 2 (20 pellets/kit)

- Gardnerella vaginalis

Pool 3 (20 pellets/kit)

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

Pool 4 (20 pellets/kit)

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

Pool 5 (20 pellets/kit)

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


## Vaginal Control Panel - Catalog \#8209

Contains six inactivated, pre-pooled microorganism pellets of each pool listed below (12 pellets/kit).
Room temperature storage | For in vitro diagnostic use | International restrictions may apply
Pool 1 (Six pellets/kit)

- Lactobacillus crispatus

Pool 2 (Six pellets/kit)
$\begin{array}{ll}\text { - Atopobium vaginae } & \text { - Gardnerella vaginalis } \\ \text { - Candida albicans } & \text { - Recombinant BVAB2 } \\ \text { - Candida glabrata } & \text { - Trichomonas vaginalis }\end{array}$

- Candida krusei



Inactivated Chlamydia trachomatis Catalog \#HEOO35N

- Strain LGV-2-434

Inactivated Herpes Simplex Virus 1 Catalog \#HEOO36N

- Strain MacIntyre

Inactivated Neisseria gonorrhoeae Catalog \#HE0041N

- Strain GL0071

Human Papillomavirus 16 (HPV 16)
Cellularity Control (Inactivated Pellet) -
Catalog \#HE0056N

## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains five unassayed lyophilized pellets packaged in individual vials for ease-of-use.

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

Inactivated Chlamydia trachomatis/Neisseria gonorrhoeae (CT/NG) - Catalog \#HE0045N<br>- Chlamydia trachomatis Strain LGV-2-434<br>- Neisseria gonorrhoeae Strain GL0071<br>Inactivated Herpes Simplex Virus 2 Catalog \#HE0037N<br>- Strain MS<br>Inactivated Trichomonas vaginalis Catalog \#HE0042N<br>- Strain GL0028<br>Human Papillomavirus 18 (HPV 18) Cellularity Control (Inactivated Pellet) - Catalog \#HE0057N<br>Negative Cellularity Control (Inactivated Pellet) - Catalog \#HE0058N<br>- A549 lung epithelial cells



## Synthetic Helix Elite Molecular Standards

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

- Room temperature storage
- For in vitro diagnostic use
- International restrictions may apply
- Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$

Human papillomavirus 16 Synthetic DNA - Catalog \#HEO046S

- Fragments of E6,E7 and L1 genes

Human papillomavirus 18 Synthetic DNA - Catalog \#HE0048S

- Fragments of E6, E7 and L1 genes


## Treponema pallidum Synthetic DNA - Catalog \#HEOO47S

- Fragments of 47 kDa protein and DNA Polymerase I genes


# 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. From parasitology to patient/donor screening and testing, Microbiologics has your control needs covered.

## HELIX ELITE ${ }^{\text {TM }}$ FOR EMERGING DISEASE AND OTHER PATHOGEN TESTING



## Inactivated Helix Elite Molecular Standards

Full process controls for use in molecular testing. Each kit contains five unassayed lyophilized pellets packaged in individual vials for ease-of-use.

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

Inactivated Cytomegalovirus High Control - Catalog \#HEOO40N

- AD-169

Inactivated Cytomegalovirus Low Control - Catalog \#HE0039N

- AD-169

Inactivated Cryptosporidium and Giardia - Catalog \#HE0049N

- Giardia lamblia (Strain H3)
- Cryptosporidium parvum (Strain lowa)

Inactivated Borrelia burgdorferi - Catalog \#HE0052N


## Synthetic Helix Elite Molecular Standards

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

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


## Cryptosporidium hominis Synthetic DNA - Catalog \#HE0001S

- 18S rRNA gene of Cryptosporidium hominis I Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Cryptosporidium parvum Synthetic DNA - Catalog \#HE0002S

- 18S rRNA gene of Cryptosporidium parvum | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Cyclospora cayetanensis Synthetic DNA - Catalog \#HEOO25S

- 18S rRNA gene of Cyclospora cayentanensis I Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Dientamoeba fragilis Synthetic DNA - Catalog \#HE0015S

- 18 S rRNA gene of Dientamoeba fragilis | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


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

- Fragments from the NSP3 gene, the capsid protein gene, and the E2 glycoprotein gene । Dried RNA Preserved with Biomatrica RNAstable ${ }^{\oplus}$ | Export license required for shipping outside U.S.


## HELIX ELITE ${ }^{\text {Tm }}$ FOR EMERGING DISEASE AND OTHER PATHOGEN TESTING



## Synthetic Helix Elite Molecular Standards

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

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


## Encephalitozoon intestinalis Synthetic DNA - Catalog \#HEOOO4S

- 18S rRNA gene of Encephalitozoon intestinalis \| Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Entamoeba dispar Synthetic DNA - Catalog \#HE0007S

-18S rRNA gene of Entamoeba dispar | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$

## Entamoeba histolytica Synthetic DNA - Catalog \#HE0006S

- 18S rRNA gene of Entamoeba histolytica | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Enterocytozoon bieneusi Synthetic DNA - Catalog \#HE0003S

- 18S rRNA gene of Enterocytozoon bieneusi \| Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Giardia lamblia Synthetic DNA - Catalog \#HE0005S

- 18S rRNA gene of Giardia lamblia | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Plasmodium malariae Synthetic DNA - Catalog \#HE0011S

- 18S rRNA A-type gene of Plasmodium malariae | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Plasmodium ovale Synthetic DNA - Catalog \#HE0010S

- 18 S rRNA gene of asexual Plasmodium ovale | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Plasmodium falciparum Synthetic DNA - Catalog \#HE0008S

- 18S rRNA gene of asexual Plasmodium falciparum I Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## Plasmodium vivax Synthetic DNA - Catalog \#HE0009S

- 18S rRNA gene of asexual Plasmodium vivax | Dried DNA Preserved with Biomatrica DNAstable ${ }^{\circledR}$


## 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 RNA Preserved with Biomatrica RNAstable ${ }^{\oplus}$


## HELIX|ELITE"

## MOLECULAR STANDARDS

Helix Elite ${ }^{T M}$ Inactivated Molecular Standards contain multiple targets available for gastrointestinal, respiratory, sexual health and transplant assays. These controls can be applied to: Sensitivity and specificity testing, verification and validation, assay optimization, and training. Other applications include: Proficiency testing, lot-to-lot assay testing, and external assay QC. Inactivated, Full Process Controls for Molecular Assays


## Package Details:

Products contain the following:

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


## Product 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

| Catalog Number | Product Description | Full Product Details |
| :---: | :---: | :---: |
| HE0026N | Inactivated Adenovirus 2 | See page 25 |
| HE0052N | Inactivated Borrelia burgdoferi | See page 37 |
| HE0034N | Inactivated Chlamydia pneumoniae | See page 25 |
| HE0035N | Inactivated Chlamydia trachomatis | See page 35 |
| HE0045N | Inactivated Chlamydia trachomatis/Neisseria gonorrhoeae (CT/NG) | See page 35 |
| HE0049N | Inactivated Cryptosporidium and Giarda | See page 37 |
| HE0040N | Inactivated Cytomegalovirus High Control | See page 37 |
| HE0039N | Inactivated Cytomegalovirus Low Control | See page 37 |
| HE0050N | Inactivated Enterovirus D68 | See page 25 |
| HE0036N | Inactivated Herpes Simplex Virus 1 | See page 35 |
| HE0037N | Inactivated Herpes Simplex Virus 2 | See page 35 |
| HE0056N | Inactivated Human Papillomavirus 16 (HPV) Cellularity Control | See page 35 |
| HE0057N | Inactivated Human Papillomavirus 18 (HPV) Cellularity Control | See page 35 |
| HE0044N | Inactivated Influenza A/B and Respiratory Syncytial Virus | See page 25 |
| HE0029N | Inactivated Influenza A (H1N1) Virus | See page 25 |
| HE0043N | Inactivated Influenza A (H3N2) Virus | See page 25 |
| HE0030N | Inactivated Influenza B Virus | See page 25 |
| HE0058N | Inactivated Negative Cellularity Control | See page 35 |
| HE0041N | Inactivated Neisseria gonorrhoeae | See page 35 |
| HE0031N | Inactivated Parainfluenza Virus 1 | See page 25 |
| HE0032N | Inactivated Parainfluenza Virus 2 | See page 25 |
| HE0033N | Inactivated Parainfluenza Virus 3 | See page 25 |
| HE0028N | Inactivated Respiratory Syncytial Virus A | See page 25 |
| HE0027N | Inactivated Rotavirus | See page 15 |
| HE0065N | Inactivated SARS-CoV-2 Whole Virus (Pellet) | See page 26 |

INACTIVATED HELIX ELITE ${ }^{\text {™ }}$ CONTINUED

| Catalog <br> Number | Product Description | Full Product <br> Details |
| :--- | :--- | :--- |
| HE0066NS | Inactivated SARS-CoV-2 Whole Virus (Swab) | See Page 26 |
| HE0042N | Inactivated Trichomonas vaginalis | See page 35 |
| HE0038N | Inactivated Varicella Zoster Virus | See page 25 |
| HE0053NS | Methicillin-Resistant Staphylococcus aureus (MRSA) Inactivated <br> Swab | See page 20 |
| HE0054NS | Methicillin-Susceptible Staphylococcus aureus (MSSA) Inactivated <br> Swab | See page 20 |
| HE0055NS | Methicillin-Susceptible Staphylococcus epidermidis (MSSE) <br> Inactivated Swab | See page 20 |

# HELIXIELITE" <br> <br> MOLECULAR STANDARDS 

 <br> <br> MOLECULAR STANDARDS}

Helix Elite ${ }^{\text {TM }}$ Synthetic Molecular Standards can be applied to a number of test and applications including but not limited to: Sensitivity and specificity testing, verification and validation, assay optimization, training, proficiency testing, and lot-to-lot assay testing. Synthetic Nucleic Acid RNA and DNA Sequences for Use as Amplification and Detection Controls in Molecular Assays.


## Package Details:

Products contain the following:

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


## Product 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


## SYNTHETIC HELIX ELITE ${ }^{\text {™ }}$

| Catalog Number | Product Description | Full Product Details |
| :---: | :---: | :---: |
| HE0001S | Cryptosporidium hominis Synthetic DNA | See page 37 |
| HE0002S | Cryptosporidium parvum Synthetic DNA | See page 37 |
| HE0025S | Cyclospora cayetanensis Synthetic DNA | See page 37 |
| HE0015S | Dientamoeba fragilis Synthetic DNA | See page 37 |
| HE0016S | Eastern Equine Encephalitis Virus Synthetic RNA | See page 37 |
| HE0004S | Encephalitozoon intestinalis Synthetic DNA | See page 38 |
| HE0007S | Entamoeba dispar Synthetic DNA | See page 38 |
| HE0006S | Entamoeba histolytica Synthetic DNA | See page 38 |
| HE0003S | Enterocytozoon bieneusi Synthetic DNA | See page 38 |
| HE0005S | Giardia lamblia Synthetic DNA | See page 38 |
| HE0046S | Human papillomavirus 16 Synthetic DNA | See page 35 |
| HE0048S | Human papillomavirus 18 Synthetic DNA | See page 35 |
| HE0013S | Norovirus GI. 1 Synthetic RNA | See page 15 |
| HE0012S | Norovirus GII. 4 Synthetic RNA | See page 15 |
| HE0008S | Plasmodium falciparum Synthetic DNA | See page 38 |
| HE0011S | Plasmodium malariae Synthetic DNA | See page 38 |
| HE0010S | Plasmodium ovale Synthetic DNA | See page 38 |
| HE0009S | Plasmodium vivax Synthetic DNA | See page 38 |
| HE0060S | SARS-CoV-2 Synthetic RNA (N Gene Targets) | See page 28 |
| HE0061S | SARS-CoV-2 Synthetic RNA (N/E/RdRp/S Gene Targets) | See page 28 |
| HE0062s | SARS-CoV-2 Process Control (Pellet) | See page 27 |
| HE0063S | SARS-CoV-2 Process Control (Swab) | See page 27 |
| HE0047S | Treponema pallidum Synthetic DNA | See page 35 |
| HE0014S | West Nile Virus Synthetic RNA | See page 38 |

## QC SETS AND PANELS

Microbiologics QC Sets and Panels offer QC of microbial identification for detection instruments and commercial diagnostic assays including biochemical, PCR, and molecular technologies. Microbiologics QC Sets and Panels can be applied to verification, validation and routine quality control testing. Bundled Sets and Panels of Microorganism Strains for QC and Verification of Assays and Test Kits.


## Package Details:

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


## Product 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

ASSAY-SPECIFIC QC SETS AND PANELS

| Catalog <br> Number | Product Description | Full Product Details |
| :---: | :---: | :---: |
| 8193 | BD MAX ${ }^{\text {TM }}$ CT/GC/TV 20-Day QC Panel | See page 30 |
| 8202 | BD MAX ${ }^{\text {TM }}$ Enteric Parasite 20-Day QC Panel | See page 10 |
| 8204 | BD MAX ${ }^{\text {m }}$ Enteric Parasite Control Panel | See page 10 |
| 8200 | Cepheid Xpert ${ }^{\circledR}$ C. difficile/Epi Control Panel (Inactivated Swab) | See page 17 |
| 8188 | Cepheid Xpert $^{\circledR} \mathrm{CT} /$ NG Control Panel (Inactivated Swab) | See page 30 |
| 8194 | Cepheid Xpert ${ }^{\circledR}$ GBS LB Control Panel (Inactivated Swab) | See page 30 |
| 8195 | Cepheid Xpert ${ }^{\circledR}$ MRSA NxG Control Panel (Inactivated Swab) | See page 17 |
| 8196 | Cepheid Ppert $^{\circledR}$ Nasal Control Panel (Inactivated Swab) | See page 17 |
| 8199 | Cepheid Xpert ${ }^{\circledR}$ Respiratory Control Panel (Inactivated Swab) | See page 22 |

## SYNDROME-SPECIFIC OC SETS AND PANELS

| Catalog Number | Product Description | Full Product Details |
| :---: | :---: | :---: |
| 8215 | Blood Culture Identification (BCID) Control Panel (Inactivated) | See page 4 |
| 8201 | Blood Culture Identification (BCID) Verification Panel (Inactivated) | See page 4 |
| 5229P | Blood Culture Identification (BCID) Verification Panel (Live Culture) | See page 5 |
| 5258P | Blood Culture Identification 2 (BCID2) Verification Panel (Live Culture) | See page 6 |
| 8227 | C. difficile Control Panel (Inactivated Swab) | See page 18 |
| 8171 | C. difficile QC Set (Live Culture) | See page 18 |
| 8187 | Carbapenem-resistant Enterobacteriaceae (CRE) Control Panel (Inactivated Swab) | See page 19 |
| 8229 | Chlamydia trachomatis/Neisseria gonorrhoeae (CT/NG) Control Panel (Inactivated Swab) | See page 31 |
| 8228 | CT/GC/TV Control Panel (Inactivated Pellet) | See page 31 |
| 8231 | Comprehensive Enteric Bacterial Control Panel (Inactivated Pellet) | See page 13 |
| 8179 | Enteric Bacterial Organism Set (Live Culture) | See page 11 |
| 8230 | Enteric Parasite Control Panel (Inactivated Pellet) | See page 11 |
| 8182 | Enteric Parasite Verification Panel (Synthetic) | See page 11 |
| 8184 | Enteric Pathogens Control Panel (Inactivated Pellet) | See page 12 |
| 8211 | Enteric Viral Control Panel | See page 12 |
| 8210 | Enteric Viral Verification Panel | See page 12 |
| 8190 | Enterovirus (EV) Control Panel (Inactivated Swab) | See page 22 |
| 8191 | Extended Enteric Bacterial Verification Panel (Inactivated Pellet) | See page 13 |
| 8236 | Gastrointestinal (22 Targets) Control Panel (Inactivated Pellet) | See page 14 |
| 8219 | Group A Streptococcus (GAS) Control Panel (Inactivated Swab) | See page 22 |
| 8232 | Group B Streptococcus (GBS) Control Panel (Inactivated Swab) | See page 31 |
| 8164 | GBS QC Set (Live Culture) | See page 32 |

## SYNDROME-SPECIFIC QC SETS AND PANELS CONTINUED

| Catalog Number | Product Description | Full Product Details |
| :---: | :---: | :---: |
| 8181 | Gram-Negative Blood Culture Control Panel (Inactivated Pellet) | See page 7 |
| 5226P | Gram-Negative Blood Culture Control Panel (Live Culture) | See page 7 |
| 8180 | Gram-Positive Blood Culture Control Panel (Inactivated Pellet) | See page 8 |
| 5225P | Gram-Positive Blood Culture Control Panel (Live Culture) | See page 8 |
| 8214 | Human Papillomavirus (HPV) Control Panel | See page 32 |
| 8216 | Human Papillomavirus (HPV) Verification Panel | See page 32 |
| 8174 | MRSA Organism Set (Live Culture) | See page 19 |
| 8234 | Multi-Strain Human Papillomavirus (HPV) Control Panel (Inactivated Pellet) | See page 33 |
| 8235 | Multi-Strain Human Papillomavirus (HPV) Verification Panel (Inactivated Pellet) | See page 33 |
| 8240 | Mycoplasma genitalium Control Panel (Inactivated Pellet) | See page 40 |
| 8205 | Norovirus Control Panel (Inactivated Swab) | See page 14 |
| 8178 | SA Organism Set (Live Culture) | See page 19 |
|  | Live Culture Staphylococcus Controls | See page 20 |
| 8217 | Respiratory (21 Targets) Controls Panel | See page 23 |
| 8238 | Rifampicin-Resistant Mycobacterium tuberculosis Negative Control (Inactivated Pellet) | See page 24 |
| 8206 | Rifampicin-Resistant Mycobacterium tuberculosis Positive Control Panel (Inactivated Pellet) | See page 24 |
| 8173 | GBS Verification Panel (Live Culture) | See page 31 |
| 8189 | Trichomonas vaginalis (TV) Control Panel (Inactivated Swab) | See page 34 |
| 8209 | Vaginal Control Panel | See page 34 |
| 8208 | Vaginal Verification Panel | See page 34 |
| 8203 | Vancomycin Resistant Enterococcus (VRE) Control Panel (Inactivated Swab) | See page 20 |


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