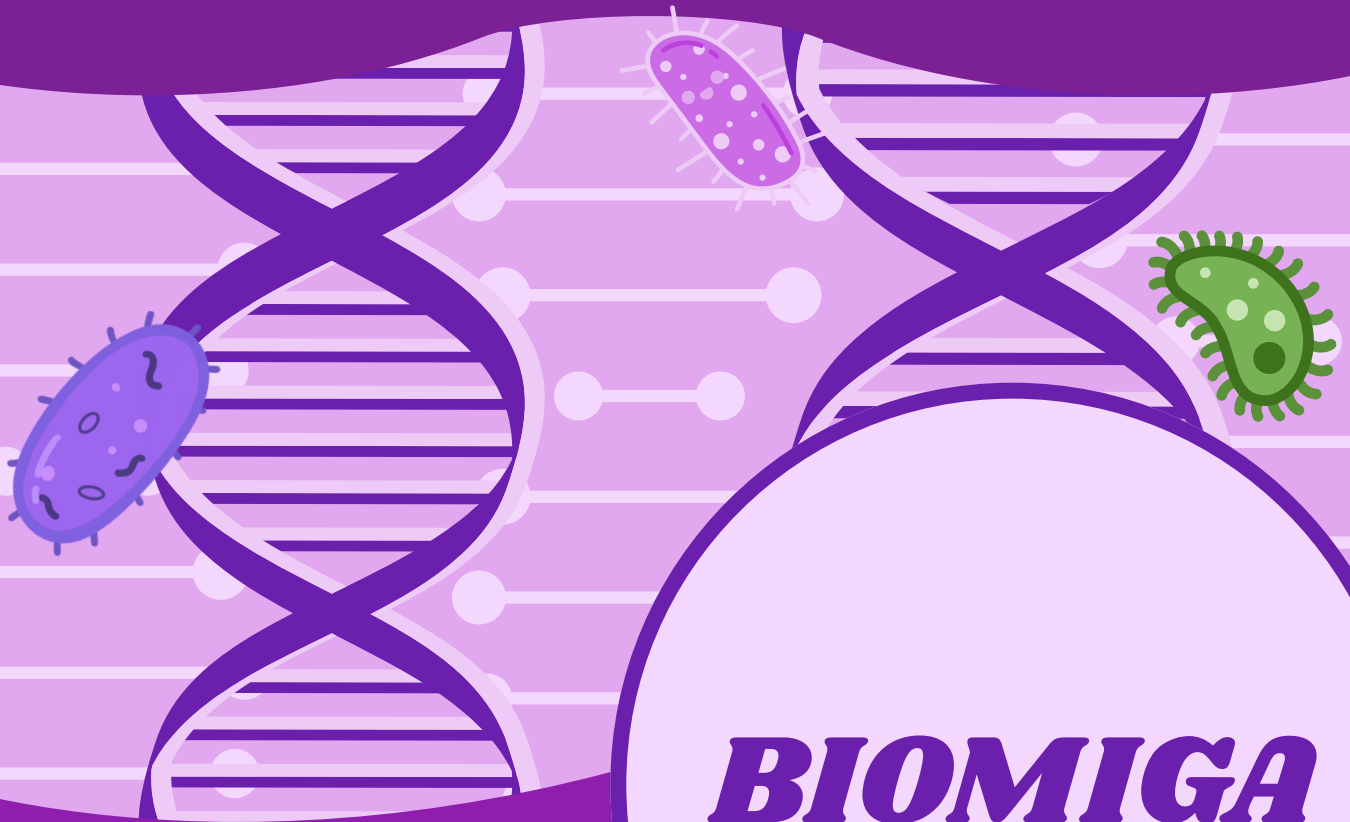


REAL-TIME PCR DETECTION PANELS

***Automated Universal Pathogen
DNA/RNA Extraction Kits***



BIOMIGA



Urinary Tract Infection

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

Operational Efficiency

- 4-plex multiplexing maximizes throughput
- Ready-to-use workflow - add template only
- 1 PCR program for DNA & RNA panels

Analytical Performance

- 1 copy detection per PCR reaction
- Reduced false negatives
- Mastermix stable 5 days at 37°C (Ct +1)

Validation & Compliance

- Turnkey validation protocols included
- Validated in CLIA/CAP/COLA labs since 2022
- Free validation reagents and support

Flexible Custom Panel Design

- Custom design available
- Flexible addition or removal of targets
- Customization timeline: ~3-4 weeks

Comprehensive Clinical Coverage

- Cover all clinically significant pathogens
- Includes comprehensive AMR targets
- Supports routine, complicated & MDR workflows

Routine UTI Panel

- Escherichia coli
- Klebsiella pneumoniae
- Klebsiella oxytoca
- Proteus mirabilis
- Enterococcus faecalis
- Staphylococcus saprophyticus
- Staphylococcus aureus
- Streptococcus agalactiae
- Serratia marcescens
- Mycoplasma hominis
- Ureaplasma parvum/urealyticum
- Pseudomonas aeruginosa
- Candida albicans
- Candida glabrata
- Candida tropicalis
- Candida parapsilosis
- Morganella morganii
- Providencia stuartii
- Enterobacter cloacae

Expanded UTI Panel

Additional 13 CAUTI/MDR/Culture-Negative targets:

- Acinetobacter baumannii
- Proteus vulgaris
- Citrobacter freundii
- Citrobacter koseri
- Candida krusei
- Candida auris
- Klebsiella aerogenes
- Enterococcus faecium
- Staphylococcus epidermidis
- Aerococcus urinae
- Corynebacterium urealyticum
- Actinotignum schaalii
- Gardnerella vaginalis

Antibiotic UTI Panel

ESBL detected

Genes: CTX-M, blaTEM, blaSHV, blaCMY, blaDHA
Impacts: Avoid cephalosporins, consider escalation therapy.

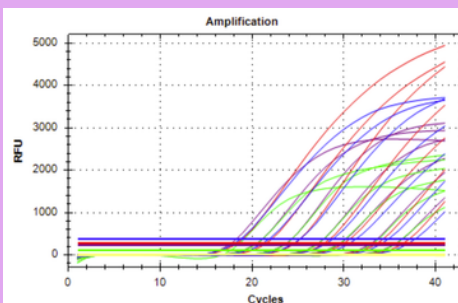
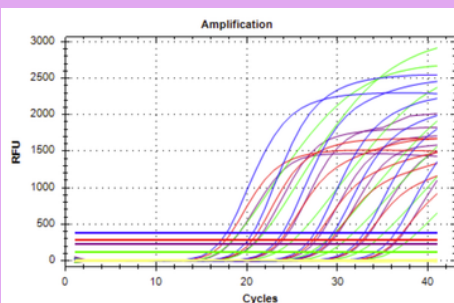
Carbapenemase detected (CRE Alert)

Genes: KPC, NDM, OXA-48-like, VIM, IMP
Impacts: High resistance, infectious disease consultation recommended.

MRSA/VRE detected

Genes: mecA, mecC, vanA, and vanB
Impacts: Guides Gram-positive antimicrobial selection.

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Frequency-Based UTI Detection

Key Advantages

- Frequency-based pathogen selection
- 4-plex + internal control
- Broad Gram + and Gram - pathogen coverage
- Includes fungal detection (Candida)
- Supports **tiered** testing workflow
- Designed for high-throughput laboratories

Panel 1 detects
~80% of
common UTI
infections

Panel 1

- E. coli
- K. pneumoniae
- S. saprophyticus
- E. faecalis
- RNase P

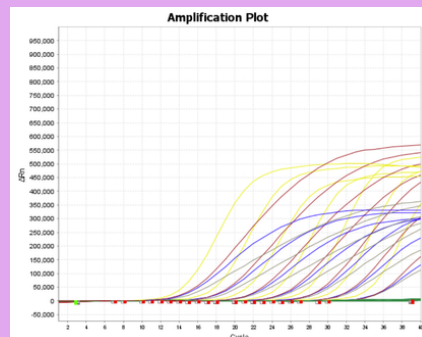
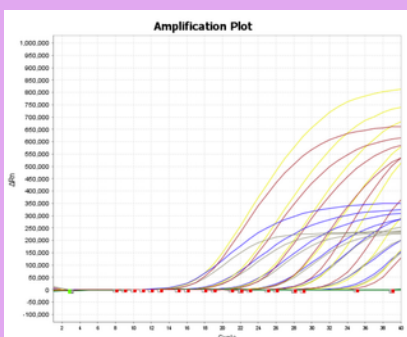
Panel 2

- S. agalactiae
- P. mirabilis
- P. aeruginosa
- S. aureus
- RNase P

Panel 3

- E. cloacae
- K. oxytoca
- M. morganii
- C. albicans
- RNase P

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Wound/SEPSIS

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

Operational Efficiency

- 4-plex multiplexing maximizes throughput
- Ready-to-use workflow - add template only
- 1 PCR program for DNA & RNA panels

Analytical Performance

- 1 copy detection per PCR reaction
- Reduced false negatives
- Mastermix stable 5 days at 37°C (Ct ±1)

Validation & Compliance

- Turnkey validation protocols included
- Validated in CLIA/CAP/COLA labs since 2021
- Free validation reagents and support

Flexible Custom Panel Design

- Custom design available
- Flexible addition or removal of targets
- Customization timeline: ~3-4 weeks

Comprehensive Coverage

- Gram-positive & Gram-negative bacteria
- Anaerobic biofilm-associated organisms
- Candida species
- HSV-1 & HSV-2 viral ulcer detection
- Designed for polymicrobial wound analysis

From Pathogen Detection to Resistance & Viral Insight – One Report. Same-Day Clinical Impact.

Routine Wound Panel

- Staphylococcus aureus
- Streptococcus pyogenes
- Streptococcus agalactiae
- Enterococcus faecalis
- Enterococcus faecium
- Escherichia coli
- Klebsiella pneumoniae
- Klebsiella oxytoca
- Proteus mirabilis
- Citrobacter freundii
- Morganella morganii
- Aerogenes
- Pseudomonas aeruginosa
- Acinetobacter baumannii
- Bacteroides fragilis group
- Staphylococcus epidermidis
- Enterobacter cloacae
- Candida albicans
- Candida glabrata
- Candida parapsilosis
- Candida tropicalis
- Candida auris
- Candida krusei

Expanded Wound Panel

Additional 6 pathogens

- Streptococcus anginosus group
- Finegoldia magna
- Prevotella spp.
- Clostridium perfringens
- HSV1
- HSV2

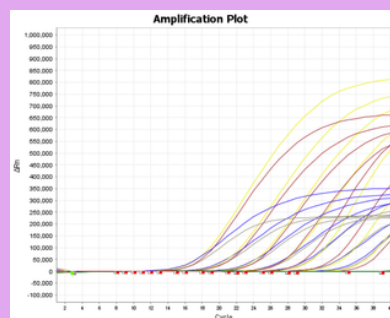
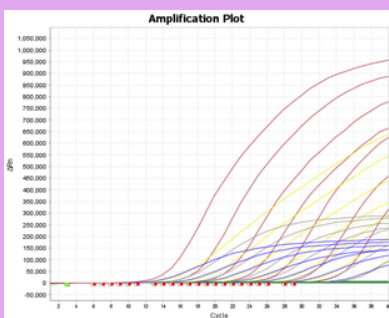
Built-in Resistance Intelligence

- MRSA (mecA)
- VRE (vanA / vanB)
- ESBL (CTX-M, blaTEM, blaSHV)
- Carbapenemases (KPC, NDM, OXA-48, VIM)
- Tetracycline resistance (TetM)

Ideal For:

- Diabetic foot infections
- Surgical site infections
- Chronic non-healing ulcers
- Immunocompromised patients

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Gastrointestinal Infections

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

Competitive Differentiation

- Full diarrheagenic *E. coli* differentiation
- Balanced pathogen mix
- Public health ready

Actionable Clinical Insight

- Multi-gene analysis for accurate pathogen identification

Broad Market Reach

- Hospitals & clinics
- Travel medicine
- Public health labs

Efficient Workflow

- Multiplex real-time PCR
- Faster than culture

Extraction procedure included

- Validated 30 min automated procedure on Kingfisher or equivalent platforms.

Routine GI Panel

Viruses

- Astrovirus
- Adenovirus
- Rotavirus
- Norovirus GI
- Norovirus GII
- Sapovirus

Bacterial

1. Enteric Bacteria

- *Vibrio cholerae*
 - *Vibrio parahaemolyticus*
 - *Vibrio vulnificus*
 - *Campylobacter jejuni/coli*
 - *Salmonella enterica*
 - *Yersinia enterocolitica*
 - *Aeromonas* spp.
 - *Plesiomonas shigelloides*
- ##### 2. Toxigenic Bacteria Marker
- *Clostridioides difficile* (tcdB)

Parasites / Protozoa

- *Cryptosporidium* spp.
- *Cyclospora cayetanensis*
- *Giardia lamblia*
- *Entamoeba histolytica*

Gene Targets

Diarrheagenic *E. coli* / *Shigella* Markers

- uidA (*E. coli* confirmation marker)
- eae (intimin adherence factor; **EPEC/EHEC** marker)
- stx1/stx2 (**STEC**)
- ipaH (**EIEC**/Shigella invasion marker; cannot differentiate)

Additional *E. coli* Pathotype Markers

- O157 (*E. coli* O157 serogroup marker)
- aggR (**EAEC** regulator gene)
- aaiC (EAEC-associated gene)

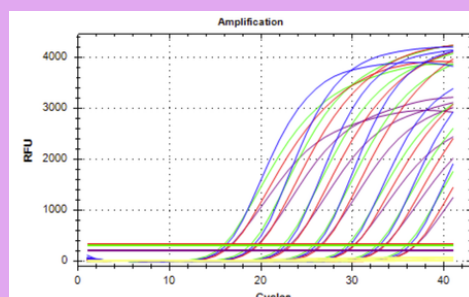
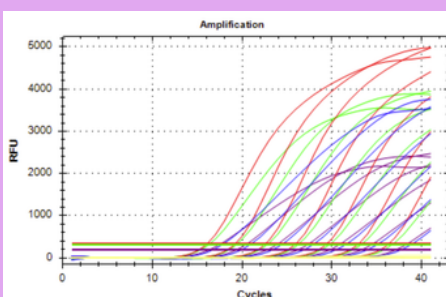
Enterotoxigenic *E. coli* (**ETEC**)

- STa (heat-stable toxin)
- STb (heat-stable toxin)
- LT (heat-labile toxin)

Resistance Marker

- CTX-M (ESBL gene family marker)

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Nail Fungal Infections

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

Extraction

Automated extraction workflow provided

Comprehensive

Dermatophytes, yeasts & molds in one assay

Efficient

4-Plex qPCR workflow

Fast

Faster than culture; Higher sensitivity

Actionable

Resistance insight supports therapy decisions

Clinical Value

Improves treatment selection

Detected Pathogens

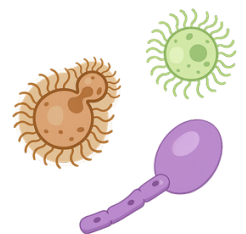
Pathogens

- Trichophyton zoophilicum (T. mentagrophytes complex)
- RNase P (internal control)
- Epidermophyton floccosum
- Microsporum canis
- Alternaria spp.
- Aspergillus spp.
- Curvularia spp.
- Scytalidium dimidiatum
- Fusarium solani
- Acremonium spp.
- Candida albicans
- Candida glabrata
- Candida krusei
- Candida parapsilosis
- Candida tropicalis
- Scopulariopsis brevicaulis
- Trichosporon spp.
- Cryptococcus spp.
- Nannizzia gypsea

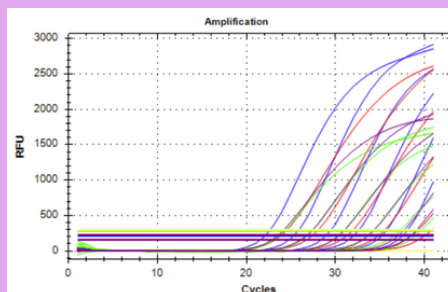
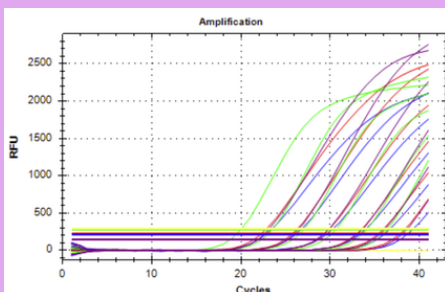
- Trichophyton rubrum
- Trichophyton spp. *T. tonsurans*, *T. soudanense*, *T. violaceum*
- Microsporum nanum (*Nannizzia nana*)
- Trichophyton interdigitale
- Malassezia spp.

Resistant Genes

- SQLE
- CYP51A
- TRL51A
- ERG11
- ERG3
- FKS1
- FKS2
- CDR2
- MDR1
- CDR1



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Respiratory Pathogen Panel

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

CLINICAL COVERAGE

- ✓ 40+ respiratory targets
- ✓ CAP + HAP + VAP pathogens
- ✓ Viral + Bacterial + Atypical
- ✓ CMV for immunocompromised patients
- ✓ ICU-grade Gram-negative detection

DIFFERENTIATION

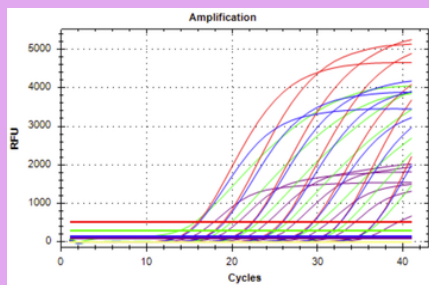
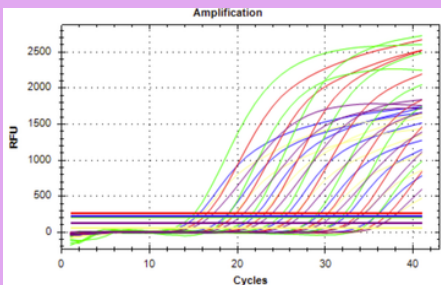
- ✓ Built-in ESBL & Carbapenemase markers
- ✓ MRSA detection included
- ✓ Rapid ICU escalation support
- ✓ Same-day actionable results
- ✓ Compatible with open PCR platforms

Detected Pathogens

- | | |
|---|--|
| <ul style="list-style-type: none">• Flu A• Flu B• Strep A• RNase P• RSV• Enterovirus• Rhinovirus• HMPV• PIV1• PIV2• PIV3• PIV4• Coronavirus 229E• NL63• OC43• HKU1• Bordetella pertussis• B. parapertussis• C. pneumoniae• M. pneumoniae | <ul style="list-style-type: none">• S. aureus• MRSA• K. pneumoniae• H. influenzae• S. pneumoniae• M. catarrhalis• Legionella pneumophila• H. influenzae B• SARS-CoV-2 (N1/N2)• Adenovirus• Human Bocavirus• CMV (UL54)• Pseudomonas aeruginosa (ecfX)• Acinetobacter baumannii (blaOXA-51-like)• CTX-M• KPC• NDM• OXA-48-like |
|---|--|

From Respiratory Pathogen Detection
to Resistance Intelligence – One Panel.

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Women's Health

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

Comprehensive Coverage

- BV, STI, Candida, HPV in one panel
- Balanced microbiome + pathogen detection

Clinically Actionable

- MG resistance (23S rRNA, parC)
- Supports targeted therapy decisions

Fast Turnaround

- Multiplex qPCR workflow
- Rapid results for same-day decisions

Efficient Workflow

- Fewer reactions vs singleplex
- Compatible with major qPCR platforms

Flexible Tier Design

- Routine + Advanced add-on menu
- Adaptable to multiple lab settings

Detected Pathogens

Routine Panel

BV / Vaginitis Core

- Lactobacillus crispatus, gasseri, iners, jensenii
- Gardnerella vaginalis; Atopobium vaginae
- Mobiluncus curtisii / mulieris
- Megasphaera 1 / 2
- Prevotella bivia
- BVAB2; Sneathia spp.

STI Core

- Chlamydia trachomatis
- Neisseria gonorrhoeae
- Trichomonas vaginalis
- Mycoplasma genitalium
- HSV-1 / HSV-2

Candida

- C. albicans; C. glabrata; C. tropicalis
- C. parapsilosis; C. krusei; C. dubliniensis

HPV

- HPV16; HPV18
- (Optional: HR HPV pool)

Resistance + QC

- MG 23S rRNA (macrolide resistance)
- parC (fluoroquinolone resistance)

Expanded Panel

Expanded STI

- Treponema pallidum
- Haemophilus ducreyi

Advanced Targets

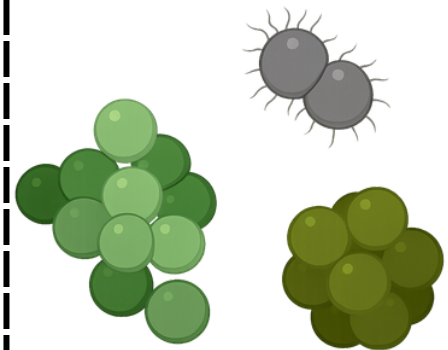
- Mycoplasma penetrans
- Candida auris

MDRO Add-On

- mecA
- vanA/B
- PVL

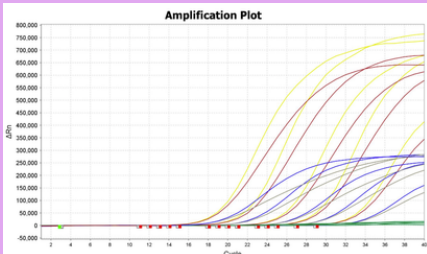
OB / UTI Add-On

- Streptococcus agalactiae
- Enterococcus faecalis
- Staphylococcus aureus
- E. coli

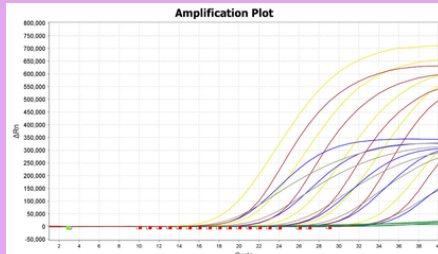


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Amplification Plot



Amplification Plot



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STI Panel

Real-Time PCR Panel

Key Advantages

Comprehensive Detection + Treatment Guidance in One Workflow

Tier-1 Clinical Coverage

- CT, NG, MG, TV core targets
- Includes TP and HSV
- Covers major STI workflows

Treatment-Guided Detection

- Includes *M. genitalium* resistance marker
- Supports therapy decisions
- Major Tier-1 differentiator

Expanded Clinical Coverage

- *Treponema pallidum*
- HSV-1 / HSV-2
- Covers ulcer + discharge syndromes

Designed for Real Practice

- OB/GYN clinics
- STI clinics
- Hospitals & reference labs

Efficient Multiplex Workflow

- Only 2 tubes required
- Streamlined lab workflow
- Reduces reflex testing

Detected Pathogens

STI Triplex

- *Chlamydia trachomatis*
- *Neisseria gonorrhoeae*
- *Trichomonas vaginalis*
- RNase P

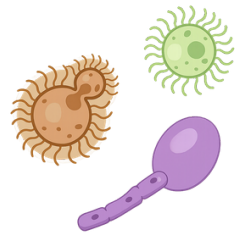
Core STI panel

Multiplex setup 1

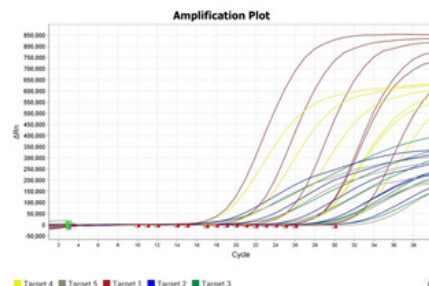
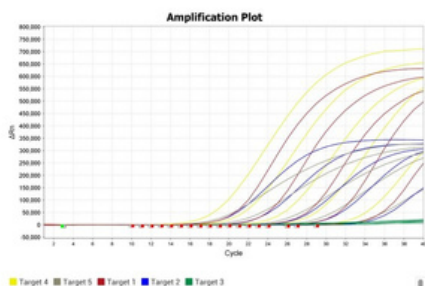
- *Chlamydia trachomatis*
- *Neisseria gonorrhoeae*
- *Mycoplasma genitalium*
- RNase P

Multiplex setup 2

- *Mycoplasma genitalium* macrolide resistance
- *Treponema pallidum*
- *Trichomonas vaginalis*
- Herpes simplex virus (HSV-1/2)



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BV Panel

Real-Time PCR Panel

BV + Candida + Trichomonas Detection in One Workflow

Key Advantages

One Test. Full Answer.

- Detects BV, Candida, and Trichomonas
- Eliminates multi-test workflows
- Ideal for symptomatic patients

Flora-Balance BV Algorithm

- Detects key BV organisms
- Measures protective Lactobacillus
- BV ↑ + Lactobacillus ↓

Strong BV Marker Coverage

- BVAB-2
- Megasphaera-1
- Atopobium vaginae
- Gardnerella vaginalis

Clinically Actionable Candida Detection

- Broad Candida spp screening
- Differentiates *C. glabrata* & *C. dubliniensis*
- Supports treatment decisions

Detected Pathogens

Multiplex setup 1

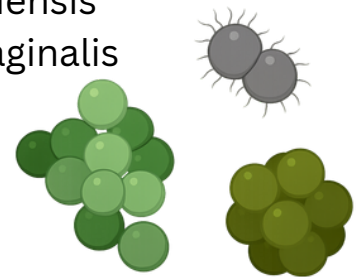
- BVAB-2
- Megasphaera-1
- Atopobium vaginae
- Gardnerella vaginalis

Multiplex setup 2

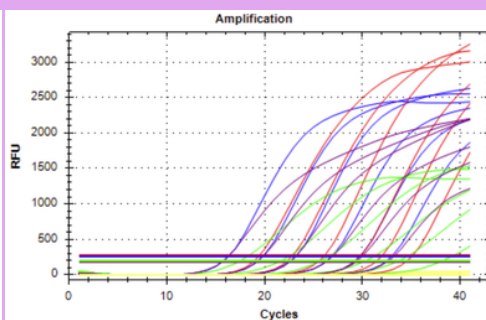
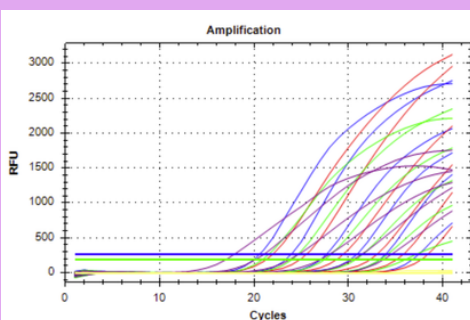
- Lactobacillus crispatus
- Lactobacillus jensenii
- Lactobacillus gasseri
- RNase P

Multiplex setup 3

- Candida spp
- Candida glabrata
- Candida dubliniensis
- Trichomonas vaginalis



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SARS-CoV-2, Flu A/B, RSV A/B

Real-Time PCR Panel

Higher Sensitivity | Faster Workflow | Lower Operational Risk

Key Advantages

Ultra-Sensitive Performance

- Validated down to 1 copy per PCR reaction
- Strong performance across diverse clinical specimen types
- Reliable detection of low viral loads

Ready-to-Use Workflow

- Prefilled extraction reagents; automated extraction workflows supported
- Single-tube PCR reaction – just add template
- Reduced hands-on time and pipetting error
- Ideal for high-throughput testing

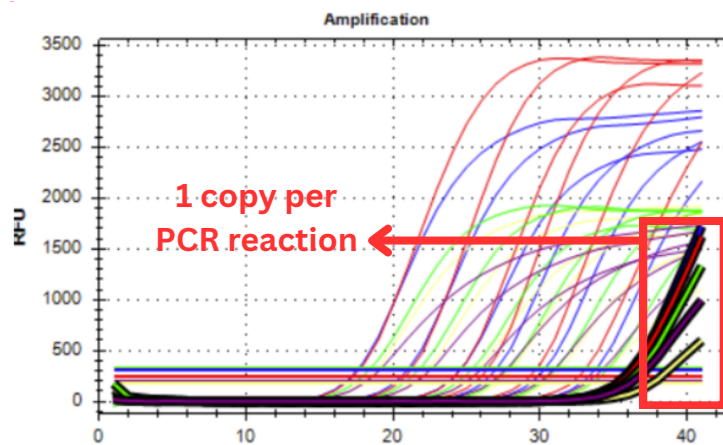
Comprehensive Respiratory Coverage

- Simultaneous detection of SARS-CoV-2, Flu A, Flu B, and RSV A/B (Without differentiation)

Validation & Compliance

- Turnkey validation protocols included
- Validated in CLIA/CAP/COLA laboratories since 2021
- Complimentary validation reagents and end-to-end technical support.

Limit of Detection 1 copy per reaction



FAM: SARS-CoV-2

Cy5: Flu B

ROX: Flu A

CY5.5: RSV A/B

VIC: RNase P

ADDITIONAL INFORMATION

- Applied Biosystems QuantStudio™ 5
- Applied Biosystems QuantStudio™ 7 Flex
- Applied Biosystems QuantStudio™ 12K Flex
- Bio-Rad CFX96 Real-Time PCR System
- Compatible with all open-platform real-time PCR systems with ≥5 fluorescence channels

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Human Papillomavirus (HPV)

Real-Time PCR Panel

Key Advantages

Ultra-Sensitive Performance

- Limit of detection down to 1 copy per PCR reaction
- Reliable detection of low viral load specimens
- Strong performance across sample types

Broad High-Risk HPV Coverage

- Detects major oncogenic HPV genotypes
- Comprehensive coverage across cervical screening targets

Efficient Dual-Reaction Design

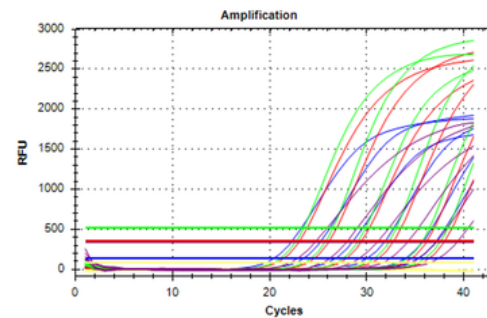
- Full genotype coverage in just 2 PCR reactions
- Optimized multiplex workflow with minimal hands-on time

Validation & Compliance

- Turnkey validation protocols included
- Complimentary validation reagents and end-to-end technical support

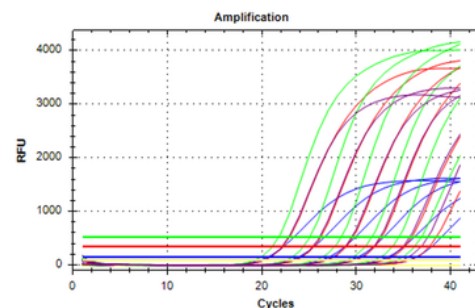
Multiplex Setup 1 (Differentiated High-Risk Types) & Limit of Detection

- FAM: HPV16-E6/E7
- ROX: HPV18-E6/E7
- Cy5: HPV45
- JOE: RNase P (Internal Control)



Multiplex Setup 2 (Grouped High-Risk Types) & Limit of Detection

- FAM: HPV31, 35, 51, 52, 58
- ROX: HPV33, 56, 66
- Cy5: HPV39, 59, 68
- JOE: RNase P (Internal Control)



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Antibiotic Resistant Genes

Real-Time PCR Panel

Comprehensive AMR Coverage by Category

β-Lactam (ESBL / AmpC)

- CTX-M, blaTEM, blaSHV, blaCMY, blaDHA

Gram+ (MRSA / VRE)

- mecA, mecC, vanA, vanB

Fluoroquinolone

- parC, qnrS

Aminoglycoside / Spectinomycin

- aac(6')-Ib-cr, spc

Carbapenemase (CRE)

- KPC, NDM, OXA-48-like, VIM, IMP

Macrolide

- 23S rRNA (M. genitalium), ermA/B/C, ereA, mphA, mefA

Tetracycline

- tetM

TMP-SMX

- dfrA1/5/12/17, sul1/2/3

AMR Coverage Across Biomiga Panels

UTI Panel

- β-lactam: CTX-M, blaTEM, blaSHV, blaCMY, blaDHA
- Carbapenemase: KPC, NDM, OXA-48-like, VIM, IMP
- Gram+: mecA, mecC, vanA, vanB

Wound / Sepsis

- β-lactam: CTX-M, blaTEM, blaSHV
- Carbapenemase: KPC, NDM, OXA-48, VIM
- Gram+: mecA, vanA/B
- Tetracycline: tetM

Respiratory (RPP)

- β-lactam: CTX-M
- Carbapenemase: KPC, NDM, OXA-48-like
- Gram+: mecA

Women's Health / STI

- Macrolide: 23S rRNA (Mycoplasma genitalium)
- Fluoroquinolone: parC

Nail Fungal

- Azole: ERG11, ERG3, CYP51A
- Allylamine: SQLE
- Echinocandin: FKS1, FKS2
- Efflux: CDR1, CDR2, MDR1

GI Panel

- β-lactam: CTX-M

CONTACT INFORMATION

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Expanded Real-Time PCR Portfolio & Lab Essentials

One-Stop Solution for Molecular Testing Laboratories

ADDITIONAL REAL-TIME PCR PANELS

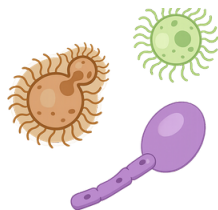
 Zika / Dengue / Chikungunya Triplex Real-Time PCR Assay

 Dengue Virus 1-4 Real-Time PCR Assay

 H1N5 Real-Time PCR Assay

 Monkeypox Real-Time PCR Assay

 Helicobacter pylori Real-Time PCR Assay



LAB ESSENTIALS

 Nuclear Acid Extractors

 VTM Swab Kit

 Optical clear sealing films | Aluminum sealing films

 96-well | 384-well PCR plates

 2.2 mL deep-well plates | 96-well combs

 Pipette tips (10, 20, 200, 1000, 1250 µL)

 RNaseErase solution | Nuclease-free water

 MgPure beads | Proteinase K | Lytic enzyme mix

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Key Advantages

Standardized Automation Across Specimens

- Validated DNA/RNA extraction protocols for NS/OS swabs, urine, nail fungal, GI, and wound swab specimens
- Single automated workflow simplifies training and improves reproducibility

Smart Pretreatment Strategy

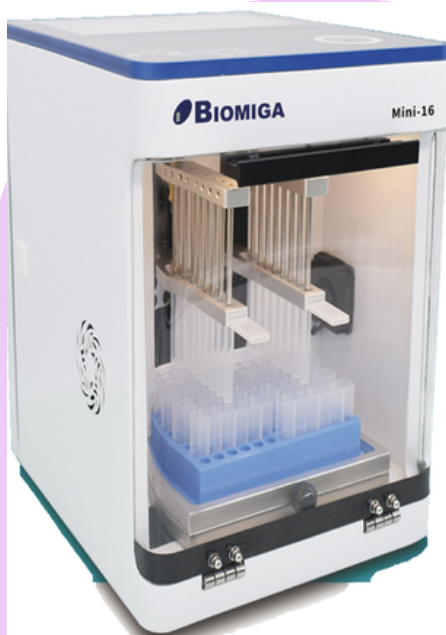
- Specimen-specific pretreatment ensures optimal lysis and recovery
- Maintains consistent downstream automated processing

Ideal for Low-Volume & Decentralized Labs

- Processes 1–16 samples per run, minimizing reagent waste and maximizing efficiency
- Well suited for specialty labs, satellite labs, mobile labs and variable testing volumes

Fast, Reliable Performance

- Automated magnetic-bead workflow ensures consistent yields with minimal hands-on time
- 10–30 min extraction supports rapid turnaround



Mini-16 Key Features

Flexible Formats

- Single-strip reagent or 96-well format

Intuitive Operation

- 7-inch color touchscreen

High Recovery Performance

- $\geq 99\%$ bead recovery; $CV \leq 3\%$

Built-in Safety

- Integrated UV disinfection

Space-Saving Design

- Compact footprint; 7.5 kg



KEY ADVANTAGES

- FDA registered/CE-IVD certified.
- Clinically validated in CLIA Labs.
- Prefilled, ready to add samples.
- No tedious setup times.
- Save time: The entire procedure takes only 30 minutes.
- Fully validated on Kingfisher flex, Allsheng autopure 96 and others.
- Over 15 million preps shipped worldwide.
- The most competitive price
- Kingfisher Flex BDZ file available upon request.

HIGH SENSITIVITY

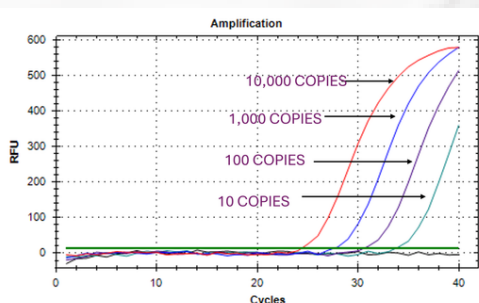
- 1000 copies /mL, 100% recovery

SUITABLE SAMPLE TYPES

- Oropharyngeal swabs /aspirates /washes
- nasopharyngeal swabs /aspirates /washes
- Bronchoalveolar lavage/ tracheal aspirates /sputum
- Saliva, stool, and urine
- Blood, serum and plasma

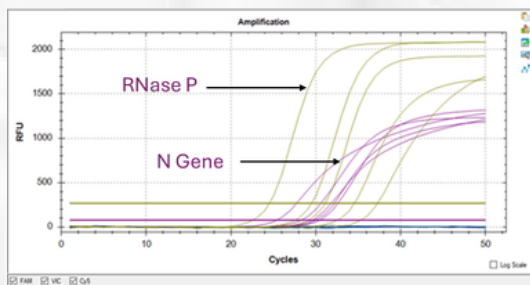
Sample data 1

qRT-PCR of RNA extracted by MR6532
1,000, 10,000, 100,000, & 1000,000 copies of inactivated COVID-19 viruses were spiked into 500 µL VTM, respectively.
5 µL of RNA from each extraction was subjected to qRT-PCR targeting N gene (Primer/probe set designed by CDC)



Sample data 2

COVID-19 qPCR assay of N gene from RNAs purified by MR6532
(Data provided by a hospital COVID-19 Testing Center)



Copies/T	Copies/mL	Cq
10	10 ³	34.54
10	10 ³	34.73
10	10 ³	34.38
100	10 ⁴	31.48
100	10 ⁴	31.46
100	10 ⁴	31.29
10 ³	10 ⁵	27.59
10 ³	10 ⁵	27.37
10 ³	10 ⁵	27.71
10 ⁴	10 ⁶	23.01
10 ⁴	10 ⁶	22.92
10 ⁴	10 ⁶	23.12



Please Check Our Video!

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