BioPathogenix (BPX™)

2025 Product US Catalog

BioPathogenix Digest

Discover the latest breakthroughs, innovative products, and industry trends in the world of lab supplies and research.

Volume 01: Who we are?

Volume 02: The Increase of Antimicrobial-Resistance in *N. gonorrhea*.

Volume 03: Recent developments in lab supplies, Wound infections, and BioPathogenix Split Sample Testing Program.

Volume 04: Streptococcus Group B (GBS), qPLEX Strep Diff Kit, AMP 2023 Annual Meeting & Expo.

Volume 05: Influenza tests, testing methods, and qPLEX Respiratory Kit.

Volume 06: Hidden world of microbes and *NEW PRODUCT* launch.

Volume 07: Freeze-Framing Innovation: Unveiling the Power of Lyophilization.

Want to subscribe to upcoming issues? Scan here.

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General Information

About Us

BioPathogenix provides products and services that combine smart, simple workflows with high performance and affordability. Our end-to-end workflow of qPCR products has been perfected with confidence for high throughput testing, and flexible compatibilities across multiple qPCR platforms. We have developed and perfected products that offer the highest quality test material and characterization, and the ability to ensure your laboratories success of achieving accurate and consistent results starting from extraction through resulting.

Quality Policy Statement

Our organization operates simple, systemized, and transparent processes that drive accountability, productivity, and external focus. BioPathogenix is committed to quality excellence, as well as providing unrivaled customer service, and achieve this by offering:

- products that meet all standard requirements.
- first class customer service.
- complete and on-time deliveries.

Customers are at the heart of our business. We are committed to continual review and improvement of processes, products, and services, to meet and exceed our customers' expectations. We have established quality systems and monitor processes against performance targets set within business plans and objectives programs. We will achieve our improvement targets through continual training and communication of the key business objectives to all personnel. Customer service measures are reported monthly as part of the "PROPS" commitment (Product Availability, Right First Time, On Time Delivery, Product Quality & Service Quality). We are committed to continual improvement of both products and processes. The framework for setting objectives lies within business planning for each part of the business, whereby targets are set based on opportunities for growth and improvement, and to eliminate and contain risks. The Management Review Meeting considers the effectiveness of these management programs outlined by this policy.

How to Order

By Phone:	To place an order for products listed in this catalog, call 859-444-5660 Monday-Friday 8 a.m. to 5 p.m. EDT.
By Email:	To place an order for products listed in this catalog, email order@biopathogenix.com
By Website:	To place an order for products listed in this catalog, go to www.biopathogenix.com

Technical Service

Inquiries for technical information, product performance, or updates on new products should be directed to Technical Support at 859-444-5660 or support@biopathogenix.com.

Custom Formulations

We welcome requests for special contract preparations made to your specifications. Inquiries for custom targets should be directed to Technical Support at 859-444-5660 or support@biopathogenix.com.

Consumables

Contents:

Collection Supplies & Transport

Amies Media Tube w/ Standard & Mini Flocked Swab

Designed to aid in sustaining the viability of a variety of organisms such as aerobes, anaerobes, and fastidious bacteria during transport.

16 mm X 100 mm, conical bottomed, white top, sterile	100/pack	CS-10104-PK
	1000/case	CS-10104

Culture & Sensitivity Tube

Designed for single-use collection, storage, and transport of urine specimens for culture and sensitivity testing of bacteria for *in vitro* diagnostics.

4 mL, labeled rounded bottom, sterile	100/pack	CS-10401-PK
	1000/case	CS-10401

No Additive Tube

Vacuum tubes are used for the transportation of urine samples with punctured top for simple urine transfer.

4 mL, labeled rounded bottom, sterile	100/pack	CS-10400-PK
	1000/case	CS-10400
10 mL, labeled rounded bottom, sterile	100/pack	CS-10403-PK
	1000/case	CS-10403

Urinanalysis Preservative Tube

Designed for single-use collection, storage, and transport of urine specimens for urinanalysis testing

9 mL, labeled rounded bottom, sterile	100/pack	CS-10404-PK
	1000/case	CS-10404

Urine Cup with Transfer Port

Used for the transportation of urine samples.

Sterile	400/case	CS-10402

Specimen Collection Pan (Urine Hats)

Suitable for all types of sample collection.

Standard size	100/case	CS-10405

Collection Supplies & Transport

Stool Transport Container

Designed for single use collection, storage, and transport of stool specimens with spoon cap with ID label applied on each device.

30 mL, sterile	1000/case	CS-10106

Specimen Bags

Used to safely transfer specimens, paperwork, and sample cups. Biohazard symbol for immediate identifcation meets OSHA requirements.

9x6 inch, with document pouch	2000/case	CS-10407

Centrifuge Tube

Designed for a broad range of research applications, including enzyme digests, DNA isolation/purification, centrifugation, incubation, and general sample/reagent storage.

2 mL, sterile	500/pack	CS-10301

Nitrile Gloves

Single use, disposable nitrile gloves.

Blue, powder free, 10 packs of 100	Small	1000/case	LS-50101
	Medium	1000/case	LS-50102
	Large	1000/case	LS-50103
	Extra Large	1000/case	LS-50104

Sharps Container

Durable and high-quality sharps container is constructed of puncture and impact resistant material.

2 Gallon, clear lid	50/pack	CS-20105
1 Quart, clear lid	100/pack	CS-20106

Collection Supplies & Transport

Bandages

Crafted with innovative materials to create a secure barrier against moisture, allowing you to move with confidence.

72mm x 19mm, sterile, 100 boxes of 100	10000/case	CS-20100

Tourniquet

Made of strong, tear-resistant material, but designed to offer elasticity. These tourniquets are comfortable on skin and easy-to-use.

Blue, sterile	2500/case	CS-20101

Coban Roll

Self-adherent elastic wrap functions like a tape, but sticks only to itself while providing controlled compression. Lightweight, breathable and moisture-resistant.

1 in X 5 yard	576/case	CS-20101

Alcohol Pads

Cleans minor cuts and abrasions. Helps prevent the risk of infection. Individually packaged.

Sterile, 100 boxes of 100	1000/case	CS-20103

Non-Woven Guaze Pad

Designed to allow exudate to seep into a secondary dressing. Breathable as standard gauze bandages, but able to wick moisture away from the wound at a quicker rate.

2 x 2 inch	1000/case	CS-20104

Butterfly Needle and Holder

Blood collection set to prevent accidental needlesticks.

23G, 3/4"	2000/case	CS-20210

Nucleic Acid Extraction Consumables

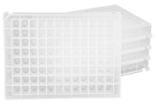
Nest 96-Deep Well Plate (2.2 mL)

For use with RNA/DNA extraction, RNA/DNA quantification, immunoprecipitations. Made from polypropylene. Tested for compatibility with automated extraction instruments.

RNase/DNase free, V-bottom, Square	50/pack	LS-30101

Nest 96-Well Standard Plate (0.5 mL)

For use with RNA/DNA extraction, RNA/DNA quantification, immunoprecipitations. Made from polypropylene. Tested for compatibility with automated extraction instruments.



RNase/DNase free, V Conical Bottom	50/pack	LS-30100

Deep Well Plate (1.2 mL)

Designed for a variety of needs such as storage or sample processing. Compatible with a variety of automated liquid handling systems.

Round Bottom	50/pack	LS-30103

Storage Film

General purpose seal that can be used to protect samples and eliminate well-to-well sample cross-contamination. Suited for short-term storage, prevention of sample loss, and general use.

Clear film with white peel away backing	1000/case	LS-30300

Sealing Mat

Designed for sealing 96-well plate for short or long-term sample storage.

Round well shape	200/case	LS-30104

Reagent Reservoir (25 mL)

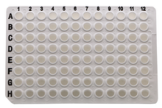
General purpose basin to aid in pipetting solutions. Designed with pour off spouts to reduce spilling liquid and graduations on the inside for quick measurement.

Sterile	200/case	LS-30301

PCR Consumables

96-Well PCR Microplate

Numerically and alphabetically labeled plates designed for single use. Compatible across various qPCR systems.



0.1 mL, white, sterile	100/box	LS-40103
0.2 mL, white, sterile	100/box	LS-40102

384-Well PCR Microplate

Numerically and alphabetically labeled plates designed for single use. Compatible across various qPCR systems.

20 µL, clear, sterile	100/box	LS-40101

PCR Sealing Film

Designed for use with microplate, eliminating well-to-well contamination and sample evaporation to ensure consistent qPCR data.

Clear adhesive film w/ white, peel away backing	1000/case	LS-40201

Strip-cap Tube

Designed for preparation of liquid reagents.

0.1 mL	125/pack	LS-30304

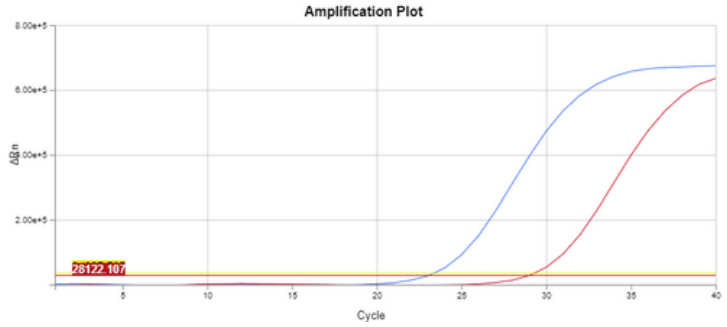
Reagents

Contents:

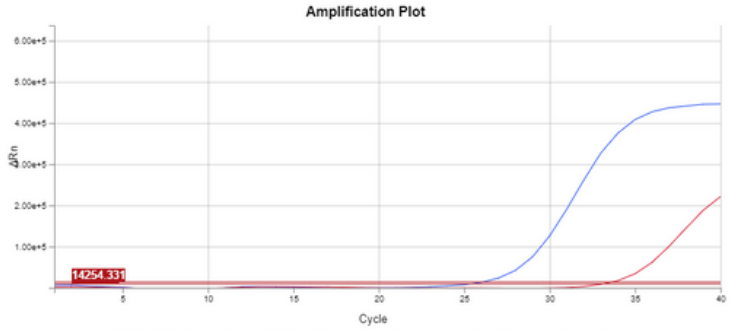
BPX™ RNA/DNA Extraction Kit

Our BPX™ RNA/DNA Extraction kit stands out from other kits on the market due to its superior sensitivity. With our advanced technology and optimized protocols, our kit enables highly efficient extraction of RNA/DNA from various sample types, including challenging pathogens. By maximizing RNA/DNA yield and purity, our kit significantly enhances the accuracy of pathogen detection assays.

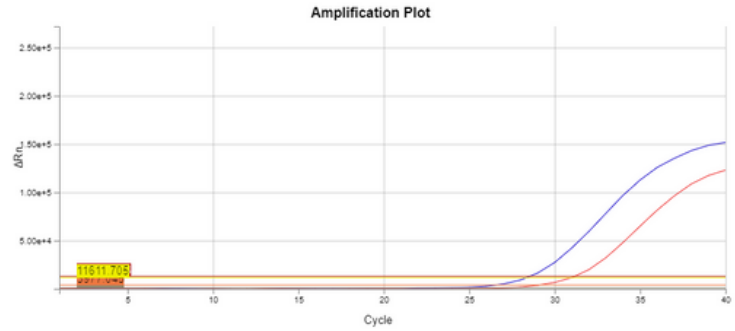
Product Features



Candia albicans (ATCC 10231, contrived in EDTA Whole Blood)



Staphylococcus aureus (ATCC 25923, contrived in Urine)



Influenza A (Zeptometrix NATFLUAH3-ST, contrived in Amies media)

BPX™ RNA/DNA Extraction Kit

Leading competitors'

A comparison study between BioPathogenix's BPX™ RNA/DNA Extraction Kit and leading competitors' kits showed that the BPX™ RNA/DNA Extraction Kit was ten to twenty times more sensitive than the leading competitors' kits.

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BPX™ RNA/DNA Extraction Kit

Our easy-to-use kit utilizes advanced technology to ensure maximum yield and purity of RNA/DNA

- Highly reproducible results with low variability, ensuring consistency in experimental outcomes.
- Versatile kit suitable for a wide range of downstream applications, such as PCR, qPCR, sequencing, and gene expression analysis.
- Compatible with manual extraction and automated platforms for streamlined processing and increased efficiency.
- Optimized reagents and buffers for efficient cell lysis and nucleic acid binding.
- Designed for various sample types, including blood, tissues, cells, nail, and microbial cultures.

BPX™ RNA/DNA Extraction Kit

Contains the reagents to extract total nucleic acid from various matrices, while utilizing magnetic-bead technology to recover high-quality nucleic acid for downstream experiments.

Kit: Wash Solution, Lysis Binding Solution, Magnetic Beads, Elution Buffer, Cell Lysis Enzyme	100/rxn 1000/rxn	KNAE1-100 KNAE1-1000

Cell Lysis Enzyme

Proprietary enzyme mix that enables lysis and nucleic acid recovery from viruses, gram +/- bacteria, parasites, and fungi.

50 mL	1/bottle	REMV-50

PK Buffer

Specifically optimized for Proteinase K digestion of toughest biological material.

7 mL	1/bottle	S-PKB-7ML-1

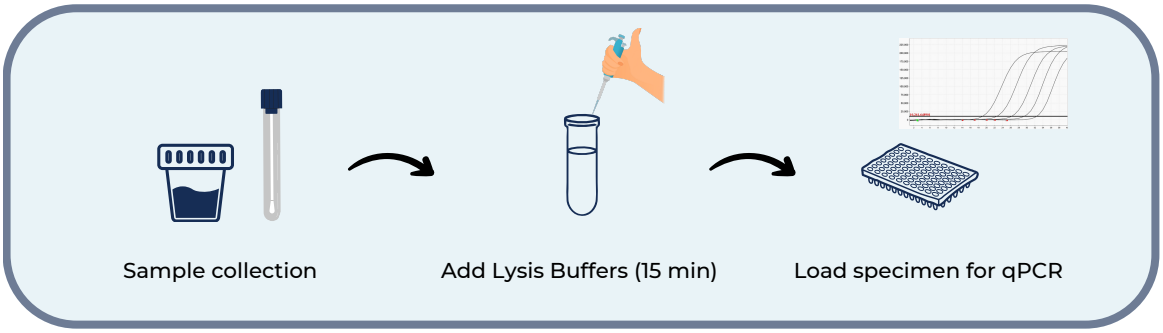
Proteinase K

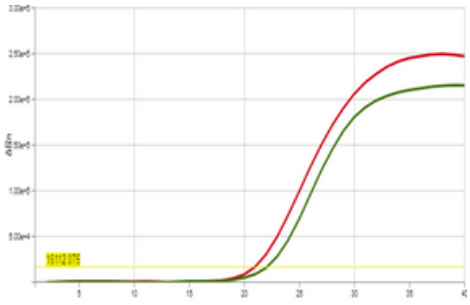
Used for digestion of proteins for downstream experiments.

1 mL, 20mg/mL >30 units/mg protein	1/vial	S-PROK-20MG-1

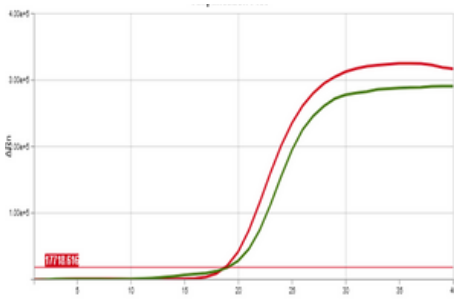
BPX™ Direct-Detect Kit

The BPX™ Direct-Detect Kit is our cutting-edge innovation. Bypassing the traditional sample extraction step, our assay eliminates the need for time-consuming and labor-intensive sample preparation, delivering results in record time.





Escherichia coli (ATCC 43888)



Staphylococcus aureus (ATCC BAA-2312)

BPX™ Direct-Detect Kit

Traditional Extraction

- Reliable performance: Our assay's sensitivity ensures reliable and robust detection of target sequences.
- Increase throughput: The efficiency of our extraction-free approach enables higher throughput, allowing you to process more samples in less time.
- Cost-effective: Reduce costs associated with instruments, consumables, and extraction kits.
- Designed for various sample types: Bacteria, fungi, parasites, and viruses.

BPX™ Direct-Detect Kit

BPX™ DNA Direct-Detect

250/rxn	KDNA-DD-250
1000/rxn	KDNA-DD-1000

The BPX™ DNA Direct-Detect Kit contains proprietary formulated reagents targeting diverse groups of pathogens like **bacteria**, **fungus**, and **parasites**, releasing DNA for various downstream processing including multiplex real time PCR. These reagents are compatible with DNA polymerase and are specifically formulated to tolerate various inhibitors of different sample types in multiplex PCR.

The BPX™ DUO Direct-Detect Kit contains proprietary formulated reagents for the swift detection of nucleic acid from **bacterial** and **viral** targets. These reagents are compatible with reverse transcriptase and DNA polymerase and specifically formulated to tolerate various inhibitors of different sample types in multiplex PCR.

BPX™ DUO Direct-Detect

250/rxn	KDUO-DD-250
1000/rxn	KDUO-DD-1000

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BPX™ qPLEX PCR Reagents

Flexible options for multiplex qPCR assays, supporting the detection of multiple targets simultaneously

Our multiplex qPCR reagents offer an exceptional solution for simultaneous detection and qualitative measure of multiple targets in a single well. With our advanced formulation and optimized primer-probe sets, our reagents ensure highly specific and sensitive amplification of multiple nucleic acid targets.

Product Features

- Multiplex format for medium-to-high throughput studies.
- Available for both pre-designed and custom designed assays.
- Wide range of compatible fluorophores, including popular dyes like FAM, VIC, JUN/ROX, and ABY/CY5.
- Robust Master Mix for efficient and consistent amplification of target nucleic acids (RNA/DNA) obtained from multiple matrices.
- High-quality qPCR reagents for accurate and reliable real time (qPCR) testing.

Whats included in the qPLEX kit?

- Primer-probe
- Multiplex Master Mix
- Positive Control

BPX™ qPLEX Reagents

QuantStudio (FAM/VIC/ABY/JUN)	
96-well format	100/rxn
384-well format	250/rxn
BioRad & Other Instruments (FAM/VIC/CY5/ROX)	
96-well format	100/rxn
384-well format	250/rxn

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Respiratory Infection

Product	Targets	Cat. No.
BPX™ Respiratory Panel	*Bordetella holmesii* *Bordetella parapertussis* *Bordetella pertussis* *Coxiella burnetii* Group A Strep Group B Strep Group C & G Strep *Haemophilus influenzae* *Haemophilus influenzae B* Human Adenovirus B3 Human Bocavirus Type 1 Human Coronavirus 229E Human Coronavirus HKU1 Human Coronavirus NL63 Human Coronavirus OC43 Human Enterovirus (PAN) Human Metapneumovirus A/B Human Parechovirus Human Respiratory Syncytial Virus A Human Respiratory Syncytial Virus B Human Rhinovirus 1A Influenza A Influenza A/H1-2009 Influenza A/H3 Influenza B Influenza C *Klebsiella pneumoniae* *mecA* MERS *Moraxella catarrhalis* *Mycoplasma pneumoniae* *Chlamydia pneumophila* *Legionella longbeachae* *Legionella pneumophila* Parainfluenza Virus 1 Parainfluenza Virus 2 Parainfluenza Virus 3 Parainfluenza Virus 4 *Pneumocystis jirovecii* *PVL* *Rnase P* (Internal Control Gene) SARS *Staphylococcus aureus* *Streptococcus pneumoniae* *van A/B*	KRPP-96U1-100 KRPPU1-250 KRPP-96Q1-100 KRPPQ1-250
BPX™ FLU/RSV Assay	Influenza A Influenza B Human Respiratory Syncytial Virus A Human Respiratory Syncytial Virus B *Rnase P* (Internal Control Gene)	KFLURSV-96U1-100 KFLURSVU1-250 KFLURSV-96Q1-100 KFLURSVQ1-250
BPX™ RSV Assay	Human Respiratory Syncytial Virus A Human Respiratory Syncytial Virus B *Rnase P* (Internal Control Gene)	KRSV-96U1-100 KRSVU1-250 KRSV-96Q1-100 KRSVQ1-250
BPX™ Strep Diff Assay	Group A Strep Group B Strep Group C & G Strep *Rnase P* (Internal Control Gene)	KSTREPDIFF-96U1-100 KSTREPDIFFU1-250 KSTREPDIFF-96Q1-100 KSTREPDIFFQ1-250
BPX™ MRSA Assay	*Staphylococcus aureus* *mecA* *van A/B* *PVL*	KMRSA-96U1-100 KMRSAU1-250 KMRSA-96Q1-100 KMRSAQ1-250

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Wound Infection

Product	Targets		Cat. No.
BPX™ Wound Panel 1	*Acinetobacter baumannii* *Bacteroides fragilis* *Citrobacter freundii* *Clostridium novyi* *Clostridium perfringens* *Clostridium septicum* *Enterobacter cloacae* *Enterococcus faecalis* *Enterococcus faecium* *Escherichia coli* *Kingella kingae* *Klebsiella aerogenes* *Klebsiella oxytoca* *Klebsiella pneumoniae* *Morganella morganii* *Proteus mirabilis* *Proteus vulgaris* *Pseudomonas aeruginosa* *Rnase P* (Internal Control Gene) *Staphylococcus aureus* *Streptococcus pyogenes*	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*)	KWOU-96U1-100 KWOUU1-250 KWOU-96Q1-100 KWOUQ1-250
BPX™ Wound Panel 2	*Acinetobacter baumannii* *Bacteroides fragilis* *Citrobacter freundii* *Clostridium novyi* *Clostridium perfringens* *Clostridium septicum* *Enterobacter cloacae* *Enterococcus faecalis* *Enterococcus faecium* *Escherichia coli* *Group A Strep* *Group B Strep* *Group C & G Strep* *Kingella kingae* *Klebsiella aerogenes* *Klebsiella oxytoca* *Klebsiella pneumoniae* *Morganella morganii* *Proteus mirabilis* *Proteus vulgaris* *Pseudomonas aeruginosa* *Rnase P* (Internal Control Gene) *Staphylococcus aureus* *Staphylococcus epidermidis*	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*) Gentamicin Resistance Marker (*aph2, ant2*) Trimethaprim Resistance Marker (*DfrA, DfrA1, DfrA5*) Tetracycline Resistance Marker (*TetO, TetM, TetB*) Bactrim Resistance Marker (*Sul1, Sul2*) Quinolone Resistance Marker (*GyrA, ParC*) Aminoglycoside Resistance Marker (*Antla, aph3*)	KWOU-96U2-100 KWOUU2-250 KWOU-96Q2-100 KWOUQ2-250

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Urinary Tract Infection

Product	Targets		Cat. No.
BPX™ UTI Panel 1	*Acinetobacter baumannii* *Candida albicans* *Candida auris* *Candida glabrata* *Candida krusei* *Candida lusitaniae* *Candida parapsilosis* *Candida tropicalis* *Citrobacter freundii* *Enterobacter cloacae* *Enterococcus faecalis* *Enterococcus faecium* *Escherichia coli* *Klebsiella aerogenes* *Klebsiella oxytoca* *Klebsiella pneumoniae* *Morganella morganii* *Mycoplasma hominis* *Proteus mirabilis* *Proteus vulgaris* *Providencia stuartii* *Pseudomonas aeruginosa* *Rnase P* (Internal Control Gene) *Serratia marcescens* *Staphylococcus aureus* *Staphylococcus saprophyticus* *Streptococcus agalactiae* *Ureaplasma urealyticum*	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*)	KUTI-96U1-100 KUTIU1-250 KUTI-96Q1-100 KUTIQ1-250
BPX™ UTI Panel 2	*Acinetobacter baumannii* *Candida albicans* *Candida auris* *Candida glabrata* *Candida krusei* *Candida lusitaniae* *Candida parapsilosis* *Candida tropicalis* *Citrobacter freundii* *Enterobacter cloacae* *Enterococcus faecalis* *Enterococcus faecium* *Escherichia coli* *Klebsiella aerogenes* *Klebsiella oxytoca* *Klebsiella pneumoniae* *Morganella morganii* *Mycoplasma hominis* *Proteus mirabilis* *Proteus vulgaris* *Providencia stuartii* *Pseudomonas aeruginosa* *Rnase P* (Internal Control Gene) *Serratia marcescens* *Staphylococcus aureus* *Staphylococcus saprophyticus* *Streptococcus agalactiae* *Ureaplasma urealyticum*	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*) Gentamicin Resistance Marker (*aph2, ant2*) Trimethaprim Resistance Marker (*DfrA, DfrA1, DfrA5*) Tetracycline Resistance Marker (*TetO, TetM, TetB*) Bactrim Resistance Marker (*Sul1, Sul2*) Quinolone Resistance Marker (*GyrA, ParC*) Aminoglycoside Resistance Marker (*Antla, aph3*)	KUTI-96U2-100 KUTIU2-250 KUTI-96Q2-100 KUTIQ2-250

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Women's Health

Product	Targets	Cat. No.
BPX™ Women's Health Panel	*Atopium vaginae* *BVAB2* *Candida albicans* *Candida auris* *Candida glabrata* *Candida krusei* *Candida lusitaniae* *Candida parapsilosis* *Candida tropicalis* *Chlamydia trachomatis* *Enterococcus faecalis* *Escherichia coli* *Gardenerella vaginalis* *Haemophilus ducreyi* Herpes Simplex Virus (HSV1) Herpes Simplex Virus (HSV2) *Lactobacillus crispatus* *Lactobacillus gasseri* *Lactobacillus iners* *Lactobacillus jensenii* *mecA* Megaspherae 1 Megaspherae 2 *Mobiluncus curtisii* *Mobiluncus muliers* *Mycoplasma genitalium* *Mycoplasma hominis* *Neisseria gonorrhoeae* *Prevotella bivia* *PVL* *Rnase P* (Internal Control Gene) *Staphylococcus aureus* *Streptococcus agalactiae* *Treponema pallidum* *Trichomonas vaginalis* *Ureaplasma parvum* *Ureaplasma urealyticum* *van A/B*	KWH-96U1-100 KWHU1-250 KWH-96Q1-100 KWHQ1-250
BPX™ Leukorrhea Assay	*Chlamydia trachomatis* *Neisseria gonorrhoeae* *Rnase P* (Internal Control Gene) *Trichomonas vaginalis*	KLEU-96U1-100 KLEUU1-250 KLEU-96Q1-100 KLEUQ1-250
BPX™ Genital Ulcer Assay	*Haemophilus ducreyi* Herpes Simplex Virus (HSV-1) Herpes Simplex Virus (HSV-2) *Treponema pallidum*	KGU-96U1-100 KGUU1-250 KGU-96Q1-100 KGUQ1-250

Sexually Transmitted Infection

BPX™ STI Panel 1	*Chlamydia trachomatis* *Mycoplasma genitalium* *Mycoplasma hominis* *Neisseria gonorrhoeae*	*Rnase P* (Internal Control Gene) *Trichomonas vaginalis* *Ureaplasma parvum* *Ureaplasma urealyticum*	KSTI-96U1-100 KSTIU1-250 KSTI-96Q1-100 KSTIQ1-250
BPX™ STI Panel 2	*Chlamydia trachomatis* *Mycoplasma genitalium* *Mycoplasma hominis* *Neisseria gonorrhoeae* Herpes Simplex Virus (HSV-1) Herpes Simplex Virus (HSV-2)	*Rnase P* (Internal Control Gene) *Trichomonas vaginalis* *Ureaplasma parvum* *Ureaplasma urealyticum* *Haemophilus ducreyi* *Treponema pallidum*	KSTI-96U2-100 KSTIU2-250 KSTI-96Q2-100 KSTIQ2-250

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Sexually Transmitted Infection cont.

Product	Targets	Cat. No.
BPX™ Herpes Simplex Virus Panel	Herpes Simplex Virus (HSV-1) Herpes Simplex Virus (HSV-2)	KHSV-96U1-100 KHSVU1-250 KHSV-96Q1-100 KHSVQ1-250
BPX™ Human Herpes Virus Panel	Varicella-Zoster Virus (HHV-3) Epstein-Barr Virus (EBV/HHV-4) Cytomegalovirus (CMV/HHV-5) Human Herpesvirus 6 (HHV-6)	KHHV-96U1-100 KHHVU1-250 KHHV-96Q1-100 KHHVQ1-250
BPX™ Varicella-Zoster Virus Assay	Varicella-zoster virus (HHV-3)	KVZV-96U1-100 KVZVU1-250 KVZV-96Q1-100 KVZVQ1-250
BPX™ Epstein-Barr Virus Assay	Epstein-Barr virus (EBV/HHV-4)	KEBV-96U1-100 KEBVU1-250 KEBV-96Q1-100 KEBVQ1-250
BPX™ Human Papillomavirus Assay	HPV 16 HPV 18	KHPV-96U1-100 KHPVU1-250 KHPV-96Q1-100 KHPVQ1-250

Candidiasis

BPX™ Candida Panel	*Candida albicans* *Candida auris* *Candida glabrata* *Candida krusei* *Candida lusitaniae* *Candida parapsilosis* *Candida tropicalis* *Rnase P* (Internal Control Gene)	KCAND-96U1-100 KCANDU1-250 KCAND-96Q1-100 KCANDQ1-250

All BPX™ products are for research use only and not for diagnostic procedures.

Gastrointestinal Infection

Product	Targets	Cat. No.
BPX™ GI Panel 1	Adenovirus 40/41 Astrovirus I *Campylobacter spp* *Clostridium difficile* *Cryptosporidium hominis* *Dientamoeba fragilis* *Entamoeba histolytica* Enteroaggregative E. coli Enteroinvasive E. coli Enteropathogenic E. coli Enterotoxigenic E. coli *Escherichia coli 0157* *Giardia lamblia* *Helicobacter pylori* Norovirus G1 Norovirus G2 *Plesiomonas shigelloides* Rotavirus A *Salmonella spp* Sapovirus I Shiga toxin-producing E. coli (STEC) *Shigella spp* *Vibrio cholerae Toxigenic* *Yersinia enterocolitica*	KGASTRO-96U1-100 KGASTROU1-250 KGASTRO-96Q1-100 KGASTROQ1-250
BPX™ GI Panel 2	Adenovirus 40/41 Astrovirus I *Campylobacter coli* *Campylobacter jejuni* *Campylobacter spp* *Clostridium difficile* *Clostridium novyi* *Clostridium perfringens* *Clostridium septicum* *Cryptosporidium hominis* *Dientamoeba fragilis* *Entamoeba histolytica* Enteroaggregative E. coli Enteroinvasive E. coli Enteropathogenic E. coli Enterotoxigenic E. coli *Escherichia coli 0157* *Giardia lamblia* *Helicobacter pylori* Human parechovirus Hypervirulent C. diff 027 *Listeria monocytogenes* Norovirus G1 Norovirus G2 *Plesiomonas shigelloides* Rotavirus A, B, C *Salmonella spp* Sapovirus I Shiga toxin-producing E. coli (STEC) *Shigella spp* *Vibrio cholerae Toxigenic* *Vibrio cholerae-OmpW* *Vibrio parahaemolyticus* *Vibrio vulnificus* *Yersinia enterocolitica* Enterovirus (PAN)	KGASTRO-96U2-100 KGASTROU2-250 KGASTRO-96Q2-100 KGASTROQ2-250
BPX™ H. pylori Assay	*Helicobacter pylori*	KHPY-96U1-100 KHPYU1-250 KHPY-96Q1-100 KHPYQ1-250
BPX™ GI Worm Infections Panel	*Necator americanus/Ancylostoma* genus (Hookworm) (PAN) *Strongyloides* genus (Threadworm) *Trichuris trichuria* (Whipworm) *Enterobius vermicularis* (Pinworm) *Hymenolepis* genus (Tapeworm)	KGIWORM-96U1-100 KGIWORMU1-250 KGIWORM-96Q1-100 KGIWORMQ1-250

Nail Fungal Infection

Product	Targets		Cat. No.
BPX™ Nail Fungal Panel 1	*Acremonium strictum* *Aspergillus niger* *Aspergillus terreus* *Aternaria alternata* *Candida albicans* *Candida auris* *Candida glabrata* *Candida krusei* *Candida lusitaniae* *Candida parapsilosis*	*Candida tropicalis* *Epidermophyton flocossum* *Fusarium solani* *Microsporum audouinii/canis* *Neoscytalidium dimidiatum* *Rnase P* (Internal Control Gene) *Trichophyton interdigitale* *Trichophyton spp*	KNF-96U1-100 KNFU1-250 KNF-96Q1-100 KNFQ1-250
BPX™ Nail Fungal Panel 2	*Acremonium strictum* *Aspergillus niger* *Aspergillus terreus* *Aternaria alternata* *Candida albicans* *Candida auris* *Candida glabrata* *Candida krusei* *Candida lusitaniae* *Candida parapsilosis* *Candida tropicalis* *Epidermophyton flocossum* *Fusarium solani*	*Microsporum audouinii/canis* *Microsporum gypseum* *Microsporum nanum* *Neoscytalidium dimidiatum* *Trichophyton interdigitale* *Trichophyton spp* *Trichophyton tonsurans* *Trichosporon beigelii* *Trichosporon mucoides* *Rnase P* (Internal Control Gene)	KNF-96U2-100 KNFU2-250 KNF-96Q2-100 KNFQ2-250

Ear Infection

Product	Targets		Cat. No.
BPX™ Ear Panel	*Acinetobacter baumanii* *Candida albicans* *Chlamydia pneumoniae* *Enterobacter cloacae* *Escherichia coli* Group A Strep Group C & G Strep *Haemophilus influenzae B* *Klebsiella aerogenes* *Klebsiella pneumoniae* *Moraxella catarrhalis* *Mycoplasma pneumoniae* *Proteus mirabilis* *Pseudomonas aeruginosa* *PVL* *Staphyloccus aureus* *Staphylococcus saprophyticus* *Streptococcus pneumoniae*	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*)	KEAR-96U1-100 KEARU1-250 KEAR-96Q1-100 KEARQ1-250

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Eye Infection

Product	Targets	Cat. No.
BPX™ Eye Panel	Adenovirus 8 *Chlamydia trachomatis* *Escherichia coli* *Haemophilus influenzae* Herpes Simplex Virus (HSV-1) *Moraxella catarrhalis* *Neisseria gonorrhoeae* *Rubella* *Staphylococcus aureus* *Streptococcus pneumoniae* Varicella-zoster virus (HHV-3)	KEYE-96U1-100 KEYEU1-250 KEYE-96Q1-100 KEYEQ1-250

Antibiotic Resistance Markers

BPX™ ABR Panel 1	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*)		KABR-96U1-100 KABRU1-250 KABR-96Q1-100 KABRQ1-250
BPX™ ABR Panel 2	AmpC Resistance Marker (*ampC*) Methicillin Resistance Marker (*mecA, femA*) Quinolone and fluoroquinolone Resistance Marker (*QnrB, QnrA*) Vancomycin Resistance Marker (*vanA1, vanA2, vanB*) Carbapenem Resistance Marker (*NDM, KPC, OXA-48, VIM, IMP-7*) ESBL Resistance Marker (*SHV, TEM, CTX-M Group 1, CTX-M Group 2*) Macrolide Resistance Marker (*mefA, ErmA, ErmB*)	Gentamicin Resistance Marker (*aph2, ant2*) Trimethaprim Resistance Marker (*DfrA, DfrA1, DfrA5*) Tetracycline Resistance Marker (*TetO, TetM, TetB*) Bactrim Resistance Marker (*Sul1, Sul2*) Quinolone Resistance Marker (*GyrA, ParC*) Aminoglycoside Resistance Marker (*Antla, aph3*)	KABR-96U2-100 KABRU2-250 KABR-96Q2-100 KABRQ2-250

Dental Panel

Product	Targets	Cat. No.
BPX™ Dental Panel	*Streptococcus mutans* *Streptococcus sobrinus* *Lactobacillus casei* *Fusobacterium nucleatum* *Aggregatibacter actinomycetemocomitans* *Porphyromonas gingivalis* *Treponema denticola* *Tannerella forsythia*	KDENTAL-96U1-100 KDENTALU1-250 KDENTAL-96Q1-100 KDENTALQ1-250

Monkeypox

BPX™ Monkeypox Assay	OPXV-E9L MPXV-F3L MPXV-B6R *Rnase P* (Internal Control Gene)	KMPXV-96U1-100 KMPXVU1-250 KMPXV-96Q1-100 KMPXVQ1-250

Miscellaneous

BPX One-step Multiplex Master Mix

Pre-mixed solution that contain all the components required for a qPCR reaction, including buffer, enzymes, and dNTPs.

5 mL	1/bottle	V5005

Positive Control (10^4 copies/µL)

Plasmid positive control which contains all analytes in qPLEX assays.

1 mL	1/vial	QQPLS-KPC

Concentrated Positive Control (10^6 copies/µL)

Highly concentrated plasmid positive control which contains all analytes in qPLEX assays.

1 mL	1/vial	QQPLS

To explore detailed product specifications for comprehensive information or to download IFU's, COA's, and SDS's, scan below or visit our website.

All BPX™ products are for research use only and not for diagnostic procedures.

BPX™ Custom PCR Assay Program

Are you feeling limited by off-the-shelf assays missing crucial targets? We specialize in designing custom targets tailored to your unique research needs.

Custom Targets

aac(6)-Ib-cr, aac(6)-Ib-cr4, aac(6)-Ib-cr6
Adenovirus 1
Adenovirus 2
Aeromonas hydrophila
Aggregatibacter actinomycetemcomitans
Alloscardovia omnicolens
Ancylostoma genus (Hookworm)
Aspergillus fumigatus
Aspergillus versicolor
Astrovirus PAN
Bartonella henselae
Beta-lactamase CMY-2
blaACC (ampC)
blaACT
blaCTXM 9/8/25
blaDHA
blaGES
blaOXA-1
blaOXA24, vlaOXA-23
blaPER-1
blaVEB
cfr
Citrobacter koseri
Corynebacterium spp. (toxigenic)
Curvularia lunata
Cutibacterium (Propionibacterium) acnes
Cyclospora cayetanensis
Enterobius vermicularis (Pinworm)
Enterohemorrhagic Escherichia coli Intimin
Enterovirus PAN assay
ErmC
Finegoldia magna
fosA
Fusobacterium necrophorum
Fusobacterium nucleatum
g_Sapovirus_GI.1_GI.2_GII.1_GII.3
g_Sapovirus_GII.5_GII.8_GIV.1_GV
Giardia intestinalis
HPV 16
HPV 18
Human Rhinovirus 2
Hymenolepis genus (Tapeworm)
Lactobacillus casei
Malassezia furfur
MCR-1
mecC
Mycobacterium tuberculosis
Necator americanus (Hookworm)
Neoscytalidium dimidiatum
nfsa
Parechovirus
Peptostreptococcus anaerobius
Peptostreptococcus prevotii
Porphyromonas gingivalis
Prevotella loescheii
qnrS
Rotavirus A
Rotavirus B
Rotavirus C
Salmonella spp. (*enterica & bongori* PAN)
Scopulariopsis brevicaulis
Staphylococcus epidermidis
Staphylococcus haemolyticus
Staphylococcus lugdunesis
Staphylococcus saprophyticus
Stenotrophomonas maltophilia
Streptococcus mutans
Streptococcus sobrinus
Strongyloides genus (Threadworm)
Tannerella forsythia
tetS
Treponema denticola
Trichuris trichuria (Whipworm)
vanC1
Vibrio vulnificus
Viridans Group Strep

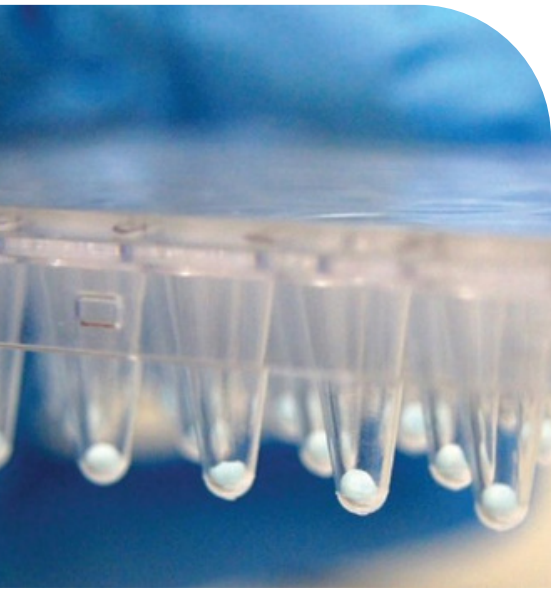
BPX™ Custom Assay Program

Scan to access the most up to date information.
Inquiries for custom targets should be directed to Technical Support at 859-444-5660 or support@biopathogenix.com.

BPX™ Lyophilized qPLEX PCR Plates

Enables efficient high-throughput qPCR workflows with faster plate loading and reduced hands-on time.

The BPX™ Lyophilized qPLEX PCR plates are an innovative format which offers numerous advantages, including long-term stability, ease of shipping and storage, and increased convenience in assay setup. Our lyophilized plates provide accurate and reproducible results by combining optimized primer-probe sets and master mix components in a shelf-stable, freeze-dried format. Simply rehydrate the lyophilized mix with your nucleic acid template and you're ready to go.



Product Features

- Lyophilized assays exhibit higher shelf stability to reduce both waste and the cost of expired reagents.
- Reduce labor at the point of testing by eliminating variability associated with manual pipetting and reagent preparation.
- Broad instrument compatibility: Plates come in 96-well and 384-well format.
- Ideal for high-throughput applications, enabling consistent results across multiple reactions.

QuantStudio (FAM/VIC/ABY/JUN)

96-well format-(Breakaway plate)

384-well format

BioRad & Other Instruments (FAM/VIC/CY5/ROX)

96-well format-(Breakaway plate)

384-well format

Send inquiry to **order@biopathogenix.com**. Include BPX™ qPLEX panel and instrument format.

Quality Control

Contents:

Contrived Specimen Samples

A control designed to assess the performance of downstream molecular assays

A contrived specimen is a sample that is intentionally created or manipulated for research purposes. It is typically produced in a laboratory setting and may not naturally occur in the body. Our contrived specimen samples can be seamlessly contrived into any matrix of your choice, allowing you to mimic diverse biological, environmental, or clinical samples for qPCR analysis.

Product Features

- Reliable Controls: Our contrived specimen samples serve as reliable positive and negative controls for qPCR assays, ensuring accurate and consistent results.
- Quantification Standards: Our contrived specimens are quantified to known concentrations, providing a reference point for determining the relative abundance of target sequences in unknown samples.
- Quality Assurance: Incorporating contrived specimen samples in qPCR workflows helps ensure the quality and reliability of results, enhancing the overall confidence in research findings and data interpretation.
- Quality Control: Utilize our contrived specimens as internal controls to monitor the efficiency and performance of your qPCR workflow, from nucleic acid extraction to amplification and detection.

Contrived Specimen Sample

Scan to access a complete list of pathogens in our repository.
Send inquiry to **order@biopathogenix.com**

Split Sample Testing Program

Split Sample Testing is a method of comparing the quality of your methods with peer laboratories. Split Sample Testing allows you to compare your results with the results of other laboratories by testing the same sample.

Program Details

- To meet the requirement, each program will have two events in a year.
- Each event will provide extensive coverage for all analytes covered by BPX™ panels.
- 10 samples will be shipped in an event as per the schedule. Results are due in two weeks.
- You will receive the final report comparing your results with peer groups.
- Results will be uploaded in an online portal and peer reports will be available for download.

2024 Schedule

BPX™ UTI Panel	January/July
BPX™ Wound Panel	February/August
BPX™ Nail Fungal Panel	March/September
BPX™ Women's Health Panel	April/October
BPX™ GI Panel	May/November
BPX™ Respiratory Panel	June/December
BPX™ STI Panel	January/July

Example Report

BioPathogenix
1.859.444.5660
120 Dewey Drive STE, 126
Nicholasville, Kentucky 40356

E4-Nail Fungal-1

Target	Reported Result	Expected Result	Performance	* Peer Data * Avg CT	SD	Your CT
Epidermophyton flocossum	Not Detected	Not Detected	Acceptable	-	-	-
Alternaria alternata	Detected	Detected	Acceptable	28.49	1.78	30.7
Acremonium strictum	Not Detected	Not Detected	Acceptable	-	-	-
Aspergillus terreus	Not Detected	Not Detected	Acceptable	-	-	-
Trichophyton rubrum	Detected	Detected	Acceptable	24.65	3.76	27.6
Fusarium solani	Not Detected	Not Detected	Acceptable	-	-	-
Aspergillus niger	Detected	Detected	Acceptable	19.83	6.21	28.9
Microsporum audouinii	Not Detected	Not Detected	Acceptable	-	-	-
Trichophyton interdigitale	Detected	Not Detected	Not Acceptable	-	-	33.7
Microsporum canis	Not Detected	Not Detected	Acceptable	-	-	-
Neofusicoccum mangiferae	Not Detected	Not Detected	Acceptable	-	-	-
Candida krusei	Not Detected	Not Detected	Acceptable	-	-	-
Candida albicans	Not Detected	Not Detected	Acceptable	-	-	-
Candida glabrata	Not Detected	Not Detected	Acceptable	-	-	-
Candida tropicalis	Not Detected	Not Detected	Acceptable	-	-	-
Candida lusitaniae	Not Detected	Not Detected	Acceptable	-	-	-
Candida auris	Not Detected	Not Detected	Acceptable	-	-	-
Candida parapsilosis	Not Detected	Not Detected	Acceptable	-	-	-

E4-Nail Fungal-2

Target	Reported Result	Expected Result	Performance	* Peer Data * Avg CT	SD	Your CT
Epidermophyton flocossum	Not Detected	Not Detected	Acceptable	-	-	-
Alternaria alternata	Not Detected	Not Detected	Acceptable	-	-	-
Acremonium strictum	Not Detected	Not Detected	Acceptable	-	-	-
Aspergillus terreus	Not Detected	Not Detected	Acceptable	-	-	-
Trichophyton rubrum	Detected	Detected	Acceptable	22.92	2.4	25.1
Fusarium solani	Not Detected	Not Detected	Acceptable	-	-	-
Aspergillus niger	Detected	Detected	Acceptable	20.09	4.75	28.1
Microsporum audouinii	Not Detected	Not Detected	Acceptable	-	-	-

1 of 7

Split Sample Testing Program

Register at **https://biopathogenix.com/split-sample-testing/**

BPX™ External Positive Control

Designed to monitor the efficiency and consistency of RNA/DNA extraction from various sample types

BioPathogenix has developed BPX™ External Positive Controls compatible with automated and manual methods that provide quality assurance when performing RNA/DNA extraction.

BPX™ External Positive Controls are known concentrations of bacterial, fungi, viruses, and parasites. The extraction control should be processed alongside the actual samples and undergoes the same extraction steps, enabling a direct comparison of the extracted nucleic acid.

Product Features

- Facilitate quality control and validation of extraction protocols in research, diagnostic, and forensic laboratories.
- These pathogens are representatives of UTI, STI, GI, Women's Health, Wound, RPP, and Nail Fungal panels.
- Compatible with a wide range of extraction methods, including spin column, magnetic bead, and automated platforms.
- It serves as a positive control to ensure that the extraction process is functioning properly and that any observed results are not due to extraction failure.

Content of BPX™ External Positive Control Panel

Target
Gardnerella vaginalis
Candida albicans
Trichomonas vaginalis
Escherichia coli
Klebsiella pneumoniae
Staphylococcus aureus
Salmonella bongori
Clostridium novyi
Aspergillus terreus
Herpes simplex virus 1
Adenovirus 41
Influenza A

BPX™ External Positive Control

Product Type: Frozen

Hazardous Information: Non-infectious

Storage Conditions: -20˚C

5 x 1 mL tubes	EPC-5 mL

Pathogen Repository

We offer a comprehensive collection of authenticated and well-characterized pathogenic microorganisms. Our repository provides researchers, medical professionals, and innovators with a trusted resource for advancing infectious disease studies. With strict quality control measures, ethical sourcing practices, and a diverse range of pathogenic strains, our repository is your gateway to groundbreaking discoveries.

Why Choose our Repository?

- Vast Diversity: Our repository boasts an extensive catalog of diverse and well-characterized pathogenic microorganisms, encompassing bacteria, viruses, fungi, and parasites.
- Quality Assurance: Rest assured knowing that our repository adheres to strict quality assurance protocols. Each pathogen is meticulously identified, authenticated, and maintained under optimal storage conditions, ensuring the integrity and purity of the samples.
- Customized Solutions: We understand the unique requirements of your research. Benefit from our expertise in tailoring sample preparations, concentrations, and formats to suit your specific needs, ensuring maximum compatibility with your experimental setup.
- Unparalleled Support: We're not just a repository; we're your partners in research. Our dedicated team of experts is ready to assist you with technical queries, sample selection, and comprehensive guidance throughout your pathogen-related endeavors.

Pathogen Repository

Scan to access a complete list of pathogens in our repository.
Send inquiry to **order@biopathogenix.com**

Validation Service

Our method validation service offers a rigorous and comprehensive assessment of our qPLEX PCR assays, ensuring accuracy, reliability, and compliance with industry standards

Services Include

- Customization and Optimization: We work closely with you to customize the validation process according to your specific requirements.
- Method Performance: Validate method performance of our qPLEX PCR assays to ensure consistent and reproducible results, minimizing variability and improving the reliability of your data.
- Sensitivity and Specificity: Our validation service evaluates the sensitivity and specificity of our qPLEX PCR assays, ensuring accurate detection and semi-quantification of target nucleic acids with minimal false positives or false negatives results.
- Expert Guidance: Benefit from the expertise of our validation team, who will guide you through the data analysis process, helping you interpret and derive meaningful insights from your qPCR data.
- Troubleshooting Assistance: Our validation service includes troubleshooting support, helping you identify and address any issues or limitations.
- Rapid Turnaround: Receive your final validation report within 1 week from the completion of the validation process, ensuring minimal waiting time and enabling faster decision-making.
- Flexible Validation Options: Our validation service provides the flexibility to choose between onsite or remote validation, catering to your specific requirements and preferences.

Validation Service

Send inquiry to **order@biopathogenix.com**

(859) 444-5660

www.biopathogenix.com

120 Dewey Drive, Nicholasville KY, 40356