

Bloodstream Infections Multiplex Real Time PCR Detection Kit

Fluorescent Probe-Based Real-Time PCR Assay

Bloodstream infections (BSIs) are among the most life-threatening clinical conditions, as pathogens entering the bloodstream can quickly spread throughout the body, triggering severe systemic inflammation. Without prompt diagnosis and targeted intervention, BSIs can rapidly progress to sepsis, septic shock, or multi-organ failure. Therefore, rapid and precise identification of the causative pathogens and associated antimicrobial resistance genes is crucial for timely initiation of appropriate therapy, guiding antibiotic selection, and improving overall patient outcomes.

This kit provides a comprehensive molecular solution for detecting 34 common bloodstream pathogens along with three major resistance genes (mecA, vanA/B, and KPC). With its high sensitivity and specificity, this multiplex PCR assay delivers fast and reliable results, helping clinicians to guide targeted therapy and enhance patient outcomes.

Test Principle

This kit uses polymerase chain reaction (PCR) technology based on TaqMan fluorescent probe to detect 34 microbes and 3 drug resistance-related genes of microbes that invade the blood circulation and cause infection in blood specimens.



Target Pathogens

Bacteria			Viruses	Fungi
<i>Acinetobacter baumannii</i>	<i>Listeria monocytogenes</i>	<i>Staphylococcus capitis</i>	Human alphaherpesvirus 1	<i>Candida albicans</i>
<i>Enterobacter cloacae complex</i>	<i>Neisseria meningitidis</i>	<i>Staphylococcus epidermidis</i>	Human alphaherpesvirus 2	<i>Candida tropicalis</i>
<i>Enterococcus faecalis</i>	<i>Proteus mirabilis</i>	<i>Staphylococcus haemolyticus</i>	Human alphaherpesvirus 3	<i>Candida glabrata</i>
<i>Enterococcus faecium</i>	<i>Proteus penneri</i>	<i>Staphylococcus saprophyticus</i>	Human alphaherpesvirus 4	<i>Candida parapsilosis</i>
<i>Escherichia coli</i>	<i>Proteus vulgaris</i>	<i>Stenotrophomonas maltophilia</i>	Human alphaherpesvirus 5	<i>Candida krusei</i>
<i>Haemophilus influenzae</i>	<i>Pseudomonas aeruginosa</i>	<i>Streptococcus agalactiae</i>	Antimicrobial resistance genes	
<i>Klebsiella oxytoca</i>	<i>Serratia marcescens</i>	<i>Streptococcus pneumoniae</i>	KPC	
<i>Klebsiella pneumoniae</i>	<i>Staphylococcus aureus</i>	<i>Streptococcus pyogenes</i>	vanA/B	
			mecA	

Broad Pathogen Coverage

Simultaneously detects 34 common bloodstream pathogens and key resistance genes in a single assay.

Captures critical treatment window

Supports the rapid initiation of targeted antimicrobial therapy.

Addresses Blood Culture Limitations

Overcomes long turnaround time and difficulty detecting fastidious pathogens.

Application Scenarios

 ICU (Intensive Care Unit) High-risk patients with frequent sepsis/bacteremia.	 Emergency Department For febrile or shock patients requiring rapid pathogen and resistance-gene identification.	 Infectious Disease Department Routine BSI testing and management of complex drug-resistant infections; complements blood culture.
 Surgery Department For monitoring post-surgical infections, especially in cardiac surgery and transplant patients.	 Hematology Department Neutropenic patients at high infection risk needing early pathogen detection.	 Obstetrics Department Early screening for neonatal sepsis and infections in maternal-neonatal care.

Ordering Information

Cat No.	Product Name	Format	Sample Types	Shelf Life	Storage	Kit Size	Certification
B80202T2012	Bloodstream Infections Multiplex Real Time PCR Detection Kit	Lyophilized	Whole Blood	12 months	2-8°C	12 Tests/Kit	CE

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