Capital Bio
TECHNOLOGY

CCID Broad-Spectrum Pathogenic Microorganism Chip Rapid Test Product

- Rapid identification of complicated, critical disease infected pathogens within 4–8 hours
- 173 kinds of detection items, including SARS–CoV–2



Clinical Background

The incidence of nosocomial infections in intensive care units (ICU) is 2 to 5 times higher than that in general wards, mainly caused by multi–drug resistant gram–negative bacilli, with severe basic diseases, low immunity, more invasive procedures and frequent use of antimicrobial agents as the main risk factors for infection. With low positive rate and long culture cycle, conventional culture methods cannot meet the requirements of ICU's test for complicated and severe infections, which is easy to cause delay of disease and abuse of antibiotics. Therefore, a rapid and accurate identification of broad–spectrum pathogenic microorganisms is urgently needed in clinical application.

CCID (Chips for Complicated Infection Diagnosis), developed and produced by CapitalBio Group, combines Q–LAMP isothermal amplification technique with disk micro–fluidic chip technology. It carries out a rapid test in terms of clinical common bacteria, fungi, parasites, viruses and other more than 100 pathogenic microorganisms, and meanwhile a test for more than 30 bacterial drug resistance gene, 4–8 hours to complete, to provide reference for clinical drug use.

Test Content

74	40	37	22
bacteria and parasites	viruses	bacterial drug–resistant genes	fungi

Broad–spectrum

74 kinds of bacteria and parasites, 40 kinds of viruses, 22 kinds of fungi and 37 kinds of drug resistance genes can be detected in one test

Fast

Complete the whole test process within 4~8 hours

Anti–pollution

Unique enclosed disk microfluidic chip design prevents pollution effectively



Applicable Population and Department

Applicable Population	Applicable Department	Applicable Population	Applicable Department
Critical patients	ICU, Severe Respiratory Disease Department, Emergency Treatment Department	Infected patients	Surgery Department, Infection Disease Department.....
Complicated infected patients	Respiratory Department	———	———

Specimen Requirement

Sample Type	Sample volume	Sample Requirement	Transport Condition
Bronchoalveolar lavage fluid (BALF)	⩾3ml	Store in sterile screw tube at 4℃	Transport at 4℃ Transport to laboratory within 72 hours
Pus	⩾1ml/ ⩾2 swab	Store sampling swab (including preservation solution) in sterile screw tube at 4℃	
Sputum	⩾2ml	Store in sterile BD tube at 4℃	
Nasopharyngeal swab (virus test)	⩾1 swab	Store the sampling swab (including preservation solution) at 4℃	

Supporting Technology Platform

Single Channel, test at any time



CFDA | CE

CapitalBio®RTisochip™–
A Isothermal Microfluidic Chip Analyzer

Four channels, independent operation



CFDA | CE

CapitalBio®RTisochip™–
W Isothermal Microfluidic Chip Analyzer

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CAPITALBIO TECHNOLOGY
+86-10-69002900
globalsales@capitalbiotech.com | en.capitalbiotech.com/en/index.html
Add: 88 Kechuang 6th Street, Building c, Yizhuang Biomedical Park, Beijing Economic –Technological Development Area, Beijing 101111, China