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Safer Society · Healthier Life

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NINGBO HEALTH GENE TECHNOLOGIES CO., LTD

COMPANY INTRODUCTION

https://youtu.be/m16oSXTKjOY

Health BioMed Co., Ltd (HBM) is the largest clinical laboratory equipment/reagents provider in China. As strategic partner of Beckman Coulter, Siemens, Werfen, Immucor, Alere, Bio-Rad Laboratories. HBM offers IVD systems and services to over 600 medical institutes all over the country. As wholly-owned subsidiary of HBM, Health Gene Technologies Co. Ltd.(HGT) is committed to developing and manufacturing simple, rapid and effective nucleic acid (DNA) testing solutions for molecular diagnostics, clinical research and forensic analysis.



PATHOGEN 01 DETECTION 01

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Respiratory Pathogen Multiplex Detection System

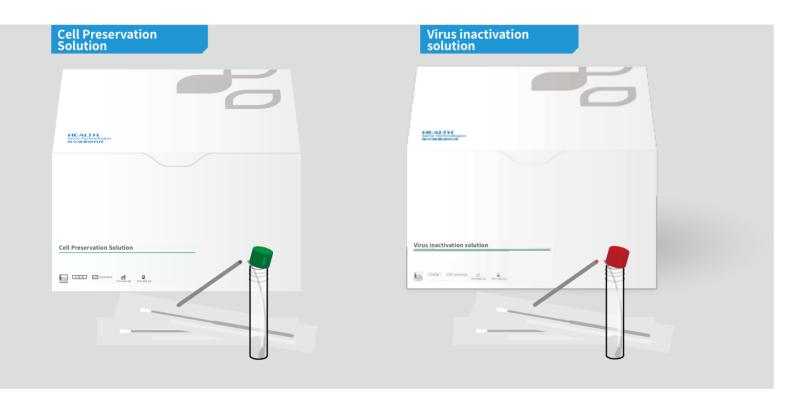
Approved by china NMPA



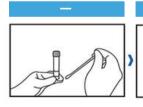
PATHOGEN 03

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Sample Collection



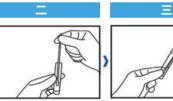
Swab Specimen



According to sampling requirements, samples are collected with sampling swabs.

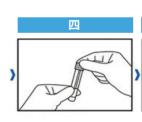


Place the swab after collecting the sample into a collection tube.





Break off the sampling swab rod that is higher than the collection tube.



Tighten the cap of the collection tube.

Mark the information as required on the label of

the collection tube.

Including sputum, bronchoscope alveolar lavage fluid, pleural fluid, etc. The sample volume should not exceed 3mL, Pour the preservation solution into the collection tube, seal it, and gently shake the collection tube to let the preservation solution soak the sample

Stable

Protect nucleic acid and improve detection performance

Convenient

Applicable to oropharyngeal swabs, nasopharyngeal swabs, sputum and other specimens; facilitate clinical specimen transfer

M Sample Preparation



A-32 Nucleic Acid Extractor

A-32 mini Nucleic Acid Extractor

A-96 Nucleic Acid Extractor

Features

- © Simple operation: pre-packed reagents, just add sample, ready to use
- © Save consumables: match single reagents to avoid reagent waste
- Humanized interface: touch screen control
- © Fast and efficient: sample extraction in 30 minutes



Virus DNA/RNA Nucleic Acid **Extraction Kit**



Virus DNA Nucleic Acid **Extraction Kit**



Virus RNA Nucleic Acid **Extraction Kit**

Features

- © Strong anti-contamination: The magnetic particle purification technology based on superparamagnetism can minimize the risk of cross-contamination;
- © Safety and environmental protection: no need to use toxic phenol and chloroform extraction in the extraction process;
- © Flexible use: single serving or 16 servings of pre-loaded reagents can be selected to reduce reagent waste

PATHOGEN DETECTION 05

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Sample Testing

Clinical Testing Kit

· Comprehensive, accurate and convenient multiple pathogen detection reagents to meet clinical needs · Satisfy a variety of clinical testing directions, a strong scientific research team continues to improve



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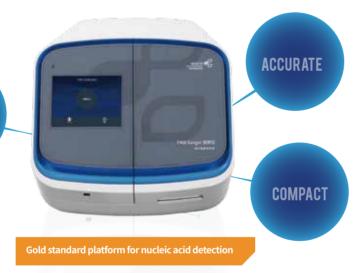


and innovative design

CONVENIENT

T400 Sanger Sequencer

Adapt to multiple pathogen nucleic acid detection reagents, making the construction of pathogen multiplex detection system easier.



Product Technical Features



Cover common respiratory pathogens Compatible with upper and lower respiratory tract specimens



High sensitivity, high specificity Triple quality controls and pollution prevention system Sanger sequencing platform



Only 1 specimen required
Results in as fast as 4 hours
384 specimens can be tested in 1 day at most

Publications

01 | A GeXP-Based Assay for Simultaneous Detection of Multiple Viruses in Hospitalized Children with Community Acquired Pneumonia

PLoS One, 2016

- 02 | Clinical evaluation of a new single-tube multiplex reverse transcription PCR assay for simultaneous detection of 11 respiratory viruses, Mycoplasma pneumoniae and Chlamydia in hospitalized children with acute respiratory infections Diagnostic Microbiology and Infectious Disease, 2017
- 03 | A comparison study between GeXP-based multiplex-PCR and serology assay for Mycoplasma pneumoniae detection in children with community acquired pneumonia BMC Infectious Diseases, 2017
- 04 | Rapid Detection of Respiratory Pathogens for Community-Acquired Pneumonia by Capillary Electrophoresis-Based Multiplex PCR SLAS Technology, 2018
- 05 | Impact and clinical profiles of Mycoplasma pneumoniae co-detection in childhood community-acquired pneumonia BMC Infectious Diseases, 2019
- 06 | Evaluation of a multiplex PCR assay for detection of respiratory viruses and Mycoplasma pneumoniae in oropharyngeal swab samples from outpatients

 Journal of Clinical Laboratory Analysis, 2019
- 07 | Comparing the yield of oropharyngeal swabs and sputum for detection of 11 common pathogens in hospitalized children with lower respiratory tractinfection
 Virology Journal, 2019
- 08 | Application of a nucleic acid-based multiplex kit to identify viral and atypical bacterial aetiology of lower respiratory tract infection in hospitalized children

 Journal of Medical Microbiology, 2019
- 09 | Clinical characteristics of the lower respiratory tract infection caused by a single infection or coinfection of the human parainfluenza virus in children

 Journal of Medical Virology, 2019
- 10 | Molecular and clinical characterization of human adenovirus associated with acute respiratory tract infection in hospitalized children Journal of Clinical Virology, 2020

Cases for Share

Early identification of mixed virus infection

Male, 4 years and 8 months old

Fever for 3 days

History of present illness: fever occurred 3 days ago, heat peak 39°C, Mp-IgM(+), Flu A (-) and Flu B (-), oral administration of Aqi for 2 days, heat peak rise: 40.6°C, no cough and asthma, no rash, planned" "Pneumonia" was admitted to the hospital.

Past history: Admitted to the hospital for "fever for 5 days and cough for 2 days" one and a half months ago. Discharge diagnosis: community-acquired pneumonia, non-severe (drug-resistant Mycoplasma pneumoniae, Streptococcus pneumoniae infection)

Day2 Mp titer 1:1280(+)

Daý3 Resp®HADV(+), Mp(+), throat swab Mp-DNA(-), body temperature decreased significantly after antiviral treatment.

Day5 bronchoscopy PCR HADV(+), Mp(+), combined treatment 8 days later, discharged.

Early recognition of Boca virus infection

Male, 11 months old

Main complaint: cough and wheezing for 2 days, exacerbation with shortness of breath and fever for 1 day The outpatient treatment with methylprednisolone and cefoxitin did not improve and was admitted to the hospital

ResP®: Boca virus (+). The flu is negative.

Suspected influenza virus infection caused plastic bronchitis, oral oseltamivir. Ceftriaxone was added due to severe illness

Oseltamivir was discontinued, and it was significantly relieved after bronchoscopy treatment, and ceftriaxone was stopped soon

Combined treatment, discharged after 5 days

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Product List

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Sample pretreatment series

| ITEM NO. | PRODUCT NAME | SPECIFICATION |
|-------------------|--|---------------|
| XB06013 | SAMPLE INACTIVATION SOLUTION | 50 TUBES/KIT |
| XB05013 | CELL PRESERVATION SOLUTION | 50 TUBES/KIT |
| 93050 TYPE (ORAL) | DISPOSABLE SAMPLING SWAB (OROPHARYNGEAL) | 100 PCS/KIT |
| 5-03-0048 | SINGLE USE SAMPLING SWAB (NASOPHARYNX) | 100 PCS/KIT |

Nucleic acid extraction series

| ITEM NO. | PRODUCT NAME | SPECIFICATION | APPLICABLE INSTRUMENT |
|----------|------------------------------|---------------|------------------------------|
| 1060132 | PATHOGEN DNA/RNA EXTRACTION | 24 TESTS/KIT | SLA-32, A-32, A-96, A-32MINI |
| 1060167 | PATHOGEN DNA/RNA EXTRACTION | 48 TESTS/KIT | SLA-32, A-32, A-96, A-32MINI |
| 1060182 | VIRAL DNA EXTRACTION | 48 TESTS/KIT | SLA-32, A-32, A-96, A-32MINI |
| XB09034 | VIRAL RNA EXTRACTION | 48 TESTS/KIT | SLA-32, A-32, A-96, A-32MINI |
| 1060055 | HUMAN GENOMIC DNA EXTRACTION | 48 TESTS/KIT | SLA-32, A-32, A-96, A-32MINI |

Instrument

| MODEL | PRODUCT NAME |
|-------------------|-------------------------|
| A-32/A-32MINI | NUCLEIC ACID EXTRACTOR |
| SLA-32 | NUCLEIC ACID EXTRACTOR |
| A-96 | NUCLEIC ACID EXTRACTOR |
| GeXP | GENETIC ANALYSIS SYSTEM |
| 3500 Dx | GENE ANALYZER |
| 3500 <i>XL</i> Dx | GENE ANALYZER |
| T400 | SANGER SEQUENCER |

More Applications Ready To Go (RUO)

Based On Fragment Analysis

| ·Influenza A virus subtyping kit | Including H1N1 (2009), H3N2, H5N1, H5N6, H7N9, H10N8, H9N2 and other subtypes |
|--|--|
| ·Influenza B virus subtyping kit | Typing detection of influenza B virus Yamagata lineage and Victoria lineage |
| · Parinfluenza virus subtyping kit | Detection of parainfluenza virus type 1, type 2, type 3, type 4 and other subtypes |
| ·Adenovirus subtyping kit | Detection of Adenoviruses B, C, E and other subgroups |
| · Rhinovirus subtyping kit | Detection of rhinovirus A, B, C and other subtypes |
| · Chlamydia subtyping kit | Detection of 9 types of common pathogenic chlamydia |
| · Fastidious bacteria and fungi multiple detection kit | Rapid multiple detection for difficult-to-culture pathogens |
| · Fever with rash pathogen multiple detection kit | Rapid multiple detection of multiple pathogens that can cause fever and rash |
| · Diarrhea pathogen multiplex detection kit | Detection of multiple pathogenic that can cause dianhea |

Based On Sanger Sequencing

| · COVID-19 Virus identification kit | · Moraxella catarrhalis identification kit |
|--|---|
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| · Coronavirus identification kit | · Proteobacterium mirabilis identification kit |
| · SARS identification kit | · Pseudomonas aeruginosa identification kit |
| · MERS identification kit | · Serratia marcescens identification kit |
| ·Influenza virus identification kit | · Green Streptococcus identification kit |
| · Acinetobacter baumannii identification kit | · Streptococcus pneumoniae identification kit |
| · Burkholderia cepacia identification kit | · Streptococcus pyogenes identification kit |
| · Candida albicans identification kit | · Staphylococcus aureus identification kit |
| · Candida glabrata identification kit | · Staphylococcus epidermidis identification kit |
| · Candida identification kit | · Chlamydia pneumoniae identification kit |
| · Candida tropicalis identification kit | · Chlamydia trachomatis identification kit |
| · Enterococcus faecium identification kit | · Mycoplasma pneumoniae identification kit |
| · Enterococcus faecalis identification kit | · Pneumocystis carinii identification kit |
| · Escherichia coli identification kit | · Diphtheria bacillus identification kit |
| · Haemophilus influenzae identification kit | |
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