CentriDx™ Automated Nucleic Acid Detection Analyzer

CentriDx™ Automated Nucleic Acid Detection Analyzer, designed and developed by Bioer Technology, leverages advanced microfluidic chip technology combined with unique centrifugal rotation (including acceleration, deceleration, and positioning) to drive precise liquid flow and mixing. CentriDx™ enables seamless nucleic acid extraction, amplification, and detection processes within the microfluidic chip, streamlining experiments for enhanced simplicity, speed, and accuracy. With its compact, user-friendly design, CentriDx™ requires no setup or calibration procedures - simply plug and play. The intuitive software interface further simplifies operation, eliminating the need for complex experimental configurations.

Features

Fully Automated

Complete the nucleic acid extraction and amplification detection automatically through liquid flowing, no need to add extra liquid.

Simple Workflow

The reagents are pre-embedded, with minimal hands-on time, just to add samples in, then results out.

Expandable Modules

Scalable configuration allows up to 4 units to be controlled by one laptop

Multiplex Detection

4-6 channels design, support 48 fluorescent targets at the most. Supports customized panel.

All- in-One Cartridge

Totally enclosed microfluidic chip to reduce the risk of contamination.

Fast, Easy and Efficiency

Sample in, result out in 60 min.

WWW.BIOER.COM

Add : 1192 Bin An Rd., Hi-tech (Binjiang) District, Hangzhou, 310053, P.R.China
Tel : +86-571-87774575
E-mail : overseas@bioer.com
Http ://www.bioer.com
Fax : +86-571-87774553
After-sales service : +86-571-87774558

Bioer Technology

Homepage: www.bioer.com

- Accuracy
- Ultramultiplex
- Qualitative
- Customizable Panel

CentriDx™ Automated Nucleic Acid Detection Analyzer

Microfluidic Chip

CentriDx 200 Test Panels (Microfluidic Chip)

Sample in, result out in just one hour

Microfluidic Chip Characteristic:

1. Monolithic integrated without moving parts.
2. Pre-stored reagent, sample-to-answer detection.
3. Fully closed chip to avoid cross contamination.
4. Full process of classic magnetic particle-based extraction + qPCR analysis.
5. Storage at atmospheric pressure under room temperature.
6. Centrifugo-pneumatic eluate aliquoting with CV≤3% for multiplexing.

7-Target Respiratory Pathogens Nucleic Acid Detection Kit

Sample Type: oropharyngeal swab, nasopharyngeal swab

- Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
- Influenza A Virus
- Influenza B virus
- Respiratory Syncytial Virus A
- Adenovirus
- *Mycoplasma Pneumoniae*
- Respiratory Syncytial Virus B

17-Target Respiratory Pathogens Nucleic Acid Detection Kit

Sample Type: oropharyngeal swab, nasopharyngeal swab

- Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
- Influenza A
- Influenza B
- Respiratory syncytial virus A
- Adenovirus
- *Mycoplasma pneumoniae*
- Respiratory syncytial virus B
- *Chlamydia pneumoniae*
- Human metapneumovirus
- Parainfluenza virus type I
- Bocavirus
- Enterovirus
- Parainfluenza virus type II
- Rhinovirus
- *Streptococcus pneumoniae*
- Parainfluenza virus type III
- *Haemophilus influenzae*

19-Target Lower Respiratory Pathogen Nucleic Acid Detection Kit

Sample Type: sputum, broncho Alveolar lavage fluid (BALF)

- *Cryptococcus spp.*
- *Bordetella pertussis*
- *Chlamydophila psittaci*
- *Cryptococcus neoformans*
- *Bordetella parapertussis*
- *Chlamydia pneumoniae*
- *Cryptococcus gattii*
- *Moraxella catarrhalis*
- *Legionella pneumophila*
- *Aspergillus spp.*
- *Group A Streptococcus*
- *Neisseria meningitidis*
- *Pneumocystis spp.*
- *Klebsiella pneumoniae*
- *Mycoplasma pneumoniae*
- *Pneumocystis jirovecii*
- *Legionella spp*
- *Streptococcus pneumoniae*
- *Haemophilus influenzae*

25-Target Respiratory Pathogens Nucleic Acid Detection Kit

Sample Type: oropharyngeal swab, nasopharyngeal swab

- Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
- Influenza A
- Adenovirus
- Respiratory syncytial virus A
- Influenza A/H1
- *Mycoplasma pneumoniae*
- Respiratory syncytial virus B
- Influenza A/H3
- *Chlamydia pneumoniae*
- Human metapneumovirus
- Influenza B Yamagata
- Coronavirus 229E
- Parainfluenza virus type I
- Influenza B Victoria
- Coronavirus OC43
- Parainfluenza virus type II
- Bocavirus
- Coronavirus NL63
- Parainfluenza virus type III
- Enterovirus
- Coronavirus HKU1
- Parainfluenza virus type IV
- Rhinovirus
- *Streptococcus pneumoniae*
- *Haemophilus influenzae*

13-Target Sexually Transmitted Disease (STD) Pathogens Nucleic Acid Detection Kit

Sample Type: male urethral swab, female cervical swab

- *Chlamydia trachomatis (CT)*
- *Neisseria gonorrhoeae (NG)*
- *Ureaplasma urealyticum (UU)*
- *Treponema pallidum (TP)*
- *Trichomonas vaginalis (TV)*
- Herpes simplex virus type 1 (HSV-1)
- *Gardnerella vaginalis (GV)*
- *Haemophilus ducreyi (HD)*
- Herpes simplex virus type 2 (HSV-2)
- *Mycoplasma hominis (MH)*
- *Ureaplasma parvum (UP)*
- *Mycoplasma genitalium (MG)*
- *Candida albicans (CA)*

11-Target Diarrheal Virus Nucleic Acid Detection Kit

Sample Type: feces

- Astrovirus
- Enteric adenovirus
- Norovirus Genogroup I
- Rotavirus Group A
- Sapovirus Genogroup I
- Norovirus Genogroup II
- Rotavirus Group B
- Sapovirus Genogroup II
- Sapovirus Genogroup V
- Rotavirus Group C
- Sapovirus Genogroup IV

23-Target Diarrheal Bacterium Nucleic Acid Detection Kit

Sample Type: feces

- *Vibrio parahaemolyticus*
- *Campylobacter spp.*
- *Escherichia coli O157:H7*
- *Vibrio cholerae*
- *Campylobacter jejuni*
- *Enteropathogenic Escherichia coli*
- *Vibrio fluvialis*
- *Campylobacter coli*
- *Enterotoxigenic Escherichia coli*
- *Vibrio vulnificus*
- *Salmonella spp.*
- *Enterohemorrhagic Escherichia coli*
- *Vibrio alginolyticus*
- *Shigella spp.*
- *Enteroinvasive Escherichia coli*
- *Cronobacter sakazakii*
- *Plesiomonas shigelloides*
- *Enteroaggregative Escherichia coli*
- *Bacillus cereus*
- *Listeria monocytogenes*
- *Yersinia enterocolitica*
- *Aeromonas hydrophila*
- *Clostridioides difficile*

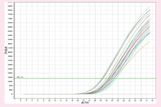
Workflow

1 Scan microfluidic chip

2 Load sample

3 Run protocol

4 Result out in 60 min



Specification

Product Name	CentriDx™ Automated Nucleic Acid Detection Analyzer
Product Model	CentriDx 200
Touch Screen	8 inch
Sample Throughput	2, Expandable to 4, 6, 8 throughput
Fluorescence Channels	4, 5, 6
Multiplex	Up to 48 targets
Fluid Drive	Centrifugal rotation
Turnaround Time	60 minutes
Fluorescence Detection Repeatability	CV≤2%
Max Ramp Rate	≥ 8 °C/s
Precision and Accuracy	0.2 °C
Power Supply	100-240 V, 50/60 Hz, 500W
Dimensions	300 (L)x410 (W)x350(H) mm
Weight	18 kg

*For research use only.