

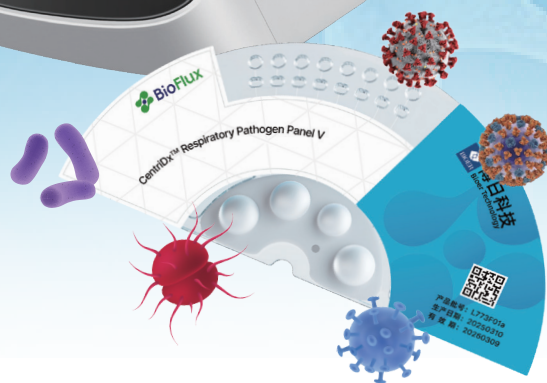


**Bioer
Technology**

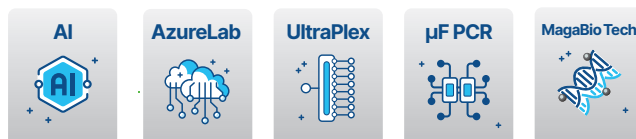


Homepage:
www.bioer.com

- Accurate
- Ultra-Multiplex
- Qualitative
- CE-IVDR Certified



CentriDx Automated Nucleic Acid Analyzer Microfluidic Chip



CentriDx Automated Nucleic Acid Analyzer

CentriDx Automated Nucleic Acid Analyzer, designed and developed by Bioer Technology, leverages leading microfluidic chip technology combined with unique centrifugal rotation (including acceleration, deceleration, and positioning) to drive precise liquid flow and mixing. It 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 Automated Nucleic Acid Analyzer 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

Without the need for additional handling, the integrated microfluidic cartridge enables automated nucleic acid extraction and amplification detection by liquid flow.

Multiplex Detection

Featuring a 4 - 6 fluorescence channel design, this system supports the simultaneous detection of up to 48 targets and offers customizable panels.

Simple Workflow

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

All- in-One Cartridge

Totally enclosed microfluidic chip to reduce the risk of contamination.

Expandable Modules

Modular design for flexibility.

Fast, Easy and Efficient

Sample in, result out within 60 minutes.



Microfluidic Chip Technology:

1. Monolithic integrated chip without moving parts.
2. Pre-embedded reagent, sample-to-answer detection.
3. Fully closed chip to avoid cross contamination.
4. Well-proven magnetic bead nucleic acid extraction and qPCR analysis workflow.
5. Storage at atmospheric pressure under room temperature.
6. Centrifugo-pneumatic eluate aliquoting with $CV \leq 3\%$ for multiplexing.

Workflow

1

Scan microfluidic chip



2

Load sample



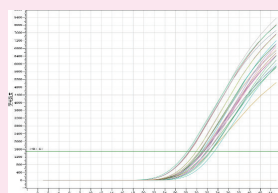
3

Run protocol



4

Result out within 60 min



Specification

Product Name	CentriDx Automated Nucleic Acid 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	$CV \leq 2\%$
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
Certificate	CE-IVDR

CentriDx 200 Syndromic Testing Panels (Microfluidic Chip)

Sample in, result out in just one hour



BSJ69 CentriDx™ Sexually Transmitted Disease Panel I (CE-IVD)

— **2 viruses and 10 bacteria**

Sample Type: male urethral swab, female cervical swab and urine

Viruses:

- Herpes simplex virus type 1 (HSV-1)
- Herpes simplex virus type 2 (HSV-2)

Bacteria:

- *Neisseria gonorrhoeae* (NG)
- *Treponema pallidum* (TP)
- *Mycoplasma hominis* (MH)
- *Candida albicans* (CA)
- *Ureaplasma urealyticum* (UU)
- *Trichomonas vaginalis* (TV)
- *Gardnerella vaginalis* (GV)
- *Ureaplasma parvum* (UP)
- *Mycoplasma genitalium* (MG)
- *Haemophilus ducreyi* (HD)



BSJ84 CentriDx™ Respiratory Pathogen Panel V (CE-IVD)

— **20 viruses and 4 bacteria**

Sample Type: oropharyngeal swab, nasopharyngeal swab and sputum samples

Viruses:

- SARS-CoV-2
- Influenza A virus
- Influenza A virus (H1)
- Influenza A virus (H1N1) pdm09
- Influenza B virus
- Rhinovirus
- Adenovirus
- Human coronavirus NL63
- Human coronavirus 229E
- Human coronavirus OC43
- Human coronavirus HKU1
- Respiratory syncytial virus A
- Respiratory syncytial virus B
- Enterovirus
- Human parainfluenza virus 1
- Human parainfluenza virus 2
- Human parainfluenza virus 3
- Human parainfluenza virus 4
- Human bocavirus
- Human metapneumovirus

Bacteria:

- *Mycoplasmoides pneumoniae*
- *Streptococcus pneumoniae*
- *Bordetella pertussis*
- *Haemophilus influenzae*



BSJ62 CentriDx™ Lower Respiratory Pathogen Panel I (CE-IVD)

— **11 bacteria and 6 fungi**

Sample Type: sputum, bronchoalveolar lavage fluid (BALF), oropharyngeal swab, nasopharyngeal swab

Fungi:

- *Cryptococcus* spp.
- *Cryptococcus neoformans*
- *Cryptococcus gattii*
- *Aspergillus* spp.
- *Pneumocystis* spp.
- *Pneumocystis jirovecii*

Bacteria:

- *Bordetella pertussis*
- *Bordetella parapertussis*
- *Moraxella catarrhalis*
- *Streptococcus pneumoniae*
- *Haemophilus influenzae*
- *Klebsiella pneumoniae*
- *Legionella* spp.
- *Streptococcus pyogenes* (Group A *Streptococcus*)
- *Legionella pneumophila*
- *Neisseria meningitidis*
- *Mycoplasma pneumoniae*



BSJ87 CentriDx™ Gastrointestinal Pathogen Panel I (CE-IVD)

— 5 viruses, 16 bacteria and 3 parasites

Sample Type: fecal and rectal swab samples

Viruses:

- Enteric Adenovirus
- Norovirus GI/GII
- Astrovirus
- Sapovirus (I/II/IV/V)
- Rotavirus A

Bacteria:

- *Vibrio cholerae*
- *Vibrio parahaemolyticus*
- *Vibrio fluvialis*
- *Aeromonas hydrophila*
- *Plesiomonas shigelloides*
- Shiga-like toxin-producing *Escherichia coli* (STEC)/Enterohemorrhagic *Escherichia coli* (EHEC)
- *Cronobacter sakazakii*
- *Campylobacter jejuni*
- *Campylobacter coli*
- *Clostridioides difficile*
- *Yersinia enterocolitica*
- Enteropathogenic *Escherichia coli* (EPEC)
- Enterotoxigenic *Escherichia coli* (ETEC)
- Enteroaggregative *Escherichia coli* (EAEC)
- *Salmonella*
- *Shigella* / Enteroinvasive *Escherichia coli* (EIEC)

Parasites:

- *Cryptosporidium*
- *Entamoeba histolytica*
- *Giardia lamblia*



BSJ97 CentriDx™ Meningitis/Encephalitis Pathogen Panel I (CE-IVD)

— 6 viruses, 7 bacteria and 1 fungus

Sample Type: cerebrospinal fluid (CSF)

Viruses:

- Herpes simplex virus 1 (HSV-1)
- Herpes simplex virus 2 (HSV-2)
- Varicella-zoster virus (VZV)
- Human herpesvirus 6 (HHV-6)
- Human parechovirus (HPeV)
- Enterovirus

Bacteria:

- *Listeria monocytogenes*
- *Neisseria meningitidis*
- *Streptococcus agalactiae* (Group B *Streptococcus*)
- *Escherichia coli* K1
- *Haemophilus influenzae*
- *Streptococcus pneumoniae*
- *Staphylococcus aureus*

Fungus:

- *Cryptococcus* spp.



BSJ96 CentriDx™ Tropical Fever Pathogen Panel I (CE-IVD)

— 8 viruses, 4 bacteria and 3 parasites

Sample Type: whole blood, serum and plasma

Viruses:

- Dengue virus type 1
- Dengue virus type 2
- Dengue virus type 3
- Dengue virus type 4
- Zika virus
- Chikungunya virus
- Yellow Fever virus
- West Nile virus

Bacteria:

- *Leptospira*
- *Burkholderia pseudomallei*
- *Rickettsia rickettsii*
- *Orientia tsutsugamushi*

Parasite:

- *Plasmodium*
- *Plasmodium falciparum*
- *Plasmodium vivax*

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