



**Bioer
Technology**



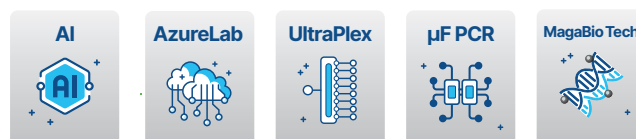
Homepage:
www.bioer.com

- Accurate
- Ultra-multiplex
- Qualitative
- CE-IVDR Certified



CentriDx™ Automated Nucleic Acid Detection Analyzer

Microfluidic Chip



CentriDx™ Automated Nucleic Acid Detection Analyzer

CentriDx™ Automated Nucleic Acid Detection 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. 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

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



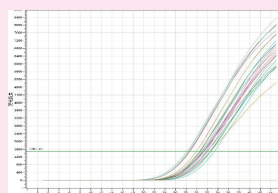
2 Load sample



3 Run protocol



4 Result out within 60 min



Specification

Product Name	CentriDx™ Automated Nucleic Acid 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
Certificate	CE-IVDR

CentriDx 200 Test Panels (Microfluidic Chip)

Sample in, result out in just one hour



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

— **13 viral and bacterial pathogens**

Sample Type: male urethral swab, female cervical swab

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



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

— **20 viruses and 5 bacteria**

Sample Type: oropharyngeal swab, nasopharyngeal swab or 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*
- *Chlamydia pneumoniae*
- *Bordetella pertussis*
- *Streptococcus pneumoniae*
- *Haemophilus influenzae*



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

— **19 bacteria**

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

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



BSJ54 CentriDx™ Respiratory Pathogen Panel I (RUO)

— 7 viral and bacterial pathogens

Sample Type: oropharyngeal swab, nasopharyngeal swab

- Novel coronavirus
- Influenza B virus
- Respiratory syncytial virus subtype A
- Influenza A Virus
- *Mycoplasma pneumoniae*
- Respiratory syncytial virus subtype B
- Adenovirus



BSJ56 CentriDx™ Respiratory Pathogen Panel II (RUO)

— 17 viral and bacterial pathogens

Sample Type: oropharyngeal swab, nasopharyngeal swab

- Novel coronavirus
- Influenza A
- Respiratory syncytial virus subtype A
- Adenovirus
- Influenza B
- Respiratory syncytial virus subtype B
- *Chlamydia pneumoniae*
- *Mycoplasma pneumoniae*
- Parainfluenza virus type I
- Bocavirus
- Human metapneumovirus
- Parainfluenza virus type II
- Rhinovirus
- Enterovirus
- Parainfluenza virus type III
- *Haemophilus influenzae*
- *Streptococcus pneumoniae*



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

— 7 viruses, 7 bacteria and 1 Fungi

Sample Type: cerebrospinal fluid (CSF)

Viruses:

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

Bacteria:

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

Yeasts / Fungi:

- *Cryptococcus spp.*



BSJ96 CentriDx™ Tropical Fever Pathogen Panel I (RUO)

— 8 viruses, 4 bacteria and 1 parasite

Sample Type: serum or plasma

Viruses:

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

Bacteria:

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

Parasites:

- *Plasmodium*



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

— 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)*
- *Enteraggregative Escherichia coli (EAEC)*
- *Salmonella spp.*
- *Shigella / Enteroinvasive Escherichia coli (EIEC)*

Parasites:

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



BSJ68 CentriDx™ Gastrointestinal Virus Panel I (RUO)

— 11 viral pathogens

Sample Type: feces, anal swab

- Norovirus GI
- Norovirus GII
- Astrovirus
- Enteric adenovirus
- Sapovirus I
- Sapovirus II
- Sapovirus IV
- Sapovirus V
- Group A rotavirus
- Group B rotavirus
- Group C rotavirus



BSJ63 CentriDx™ Gastrointestinal Bacteria Panel I (RUO)

— 23 bacterial pathogens

Sample Type: feces, anal swab

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



BSJ 81 CentriDx™ Gastrointestinal Bacteria Panel II (RUO)

— 19 bacterial pathogens

Sample Type: feces, anal swab

- *Diarrheagenic Escherichia coli*
- *Escherichia coli O157:H7*
- *Salmonella*
- *Campylobacter jejuni*
- *Campylobacter coli*
- *Campylobacter fetus*
- *Shigella*
- *Plesiomonas shigelloides*
- *Cronobacter sakazakii*
- *Listeria monocytogenes*
- *Yersinia enterocolitica*
- *Vibrio parahaemolyticus*
- *Vibrio cholerae*
- *Vibrio alginolyticus*
- *Aeromonas hydrophila*
- *Clostridioides difficile*
- *Bacillus cereus*
- *Vibrio fluvialis*
- *Vibrio vulnificus*

*The target combinations in the CentriDx detection reagent panel may be adjusted. Final specifications are subject to the official product release.

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