

About Axbio

Axbio is a semiconductor-biotechnology company developing cutting edge IVD technologies including nanopore sequencing and protein detection using Bio-CMOS electrochemical sensor ICs. It's sequencing and molecular diagnostics products are suitable for academia and industrial users and serve large research laboratories as well as small clinics.

AxiLona FL-100

Multiplex qPCR sample-to-answer platform



Your desktop all-in-one multiplex PCR lab

POCT | Automated | Enclosed | High multiplex

Axbio Inc.

Research use only

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Version:
AX-FL/E-250103-E(USA)

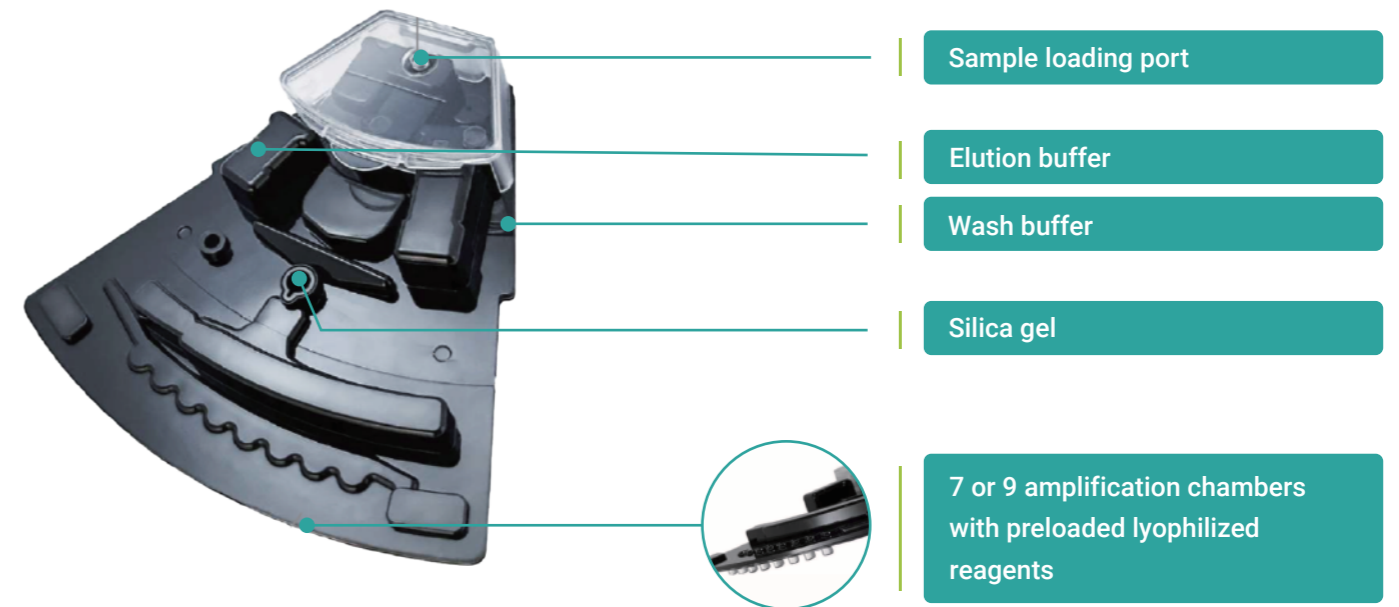
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Product introduction >>

A fully automatic multiplex qPCR platform, which can detect 30+ nucleic acid targets in one sample within 1.5 hours. The product is easy to use, and does not require any supporting instruments. The fully enclosed cassette prevents aerosol contamination and is suitable for a variety of complex application scenarios, including field testing and point of care testing.

Product features >>



Desktop

PC desktop size

Automated

Samples in, results out

Ultra Multiplex

Pre-set 7/9 amplification chambers, up to 28/36 targets for a single sample

Fast

Full process 60~85 minutes

Proven Technology

Silica-based DNA/RNA extraction chemistry using centrifugal microfluidics and real-time qPCR

Contamination Prevention

Fully enclosed cartridge to prevent aerosol contamination

Flexible Throughput

Simultaneous testing of 1-4 samples in a run

Easy to Customize

Streamlined custom assay design; can be used for various applications including infectious diseases diagnostics, oncology, genetic disorders, PGx, etc.

Product advantages >>

01

High sensitivity

LOD:100~1000
copies/ml

02

Zero cross contamination

Fully enclosed cartridge design, prevent the aerosol contamination between samples, more reliable detection results

03

Fast and easy to use

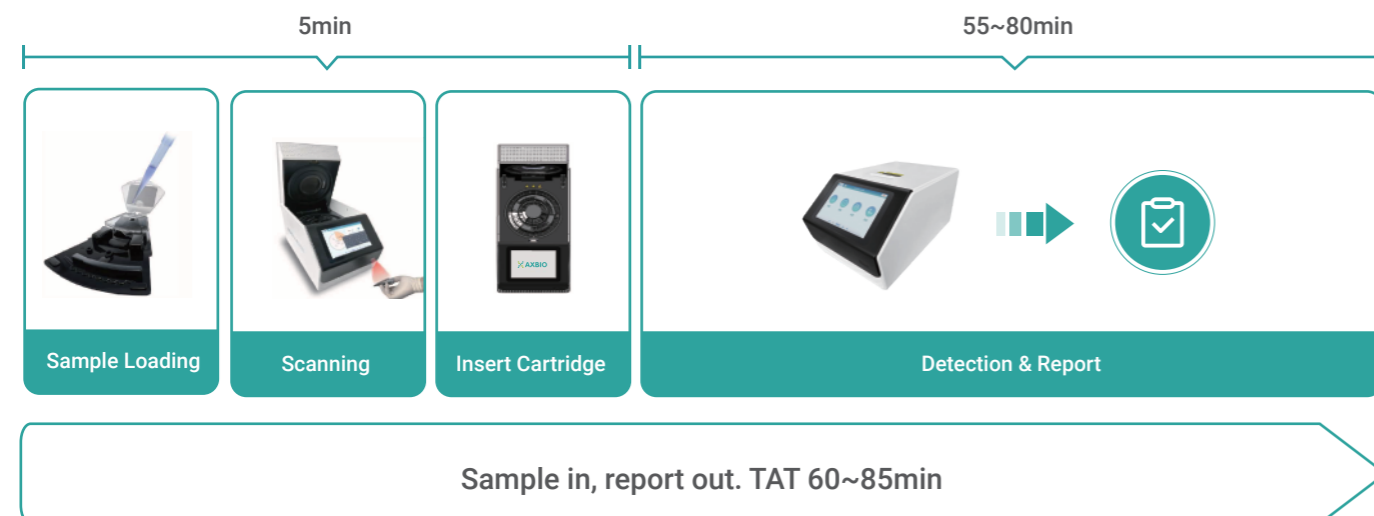
5 min hands on time,
results in 1.5h

04

Cost effective

High-multiplexed assays; Significantly lower instrument and single test costs

Testing process >>



Detection panels >>

Type	Sample Type	Panel	Pathogen Type	Pathogen List	
Respiratory Infections	Throat swab, Sputum, Bronchoalveolar lavage fluid	Respiratory Tract Pathogen - 27	Virus	DNA Virus: Adenovirus, Bocavirus, Cytomegalovirus, Epstein-Barr Virus, Adenovirus type 7 RNA Virus: Influenza A, Influenza B, Respiratory Syncytial Virus, Parainfluenza Virus(1/2/3), Human Rhinovirus, Human Metapneumovirus, Corona Virus 229E/NL63, Corona Virus HKU1/OC43, SARS-CoV-2	
			Bacteria	Klebsiella Pneumoniae, Pseudomonas Aeruginosa, Acinetobacter Baumannii, Haemophilus Influenzae, Moraxella catarrhalis, Bordetella Pertussis, Staphylococcus Aureus, Streptococcus Pneumoniae	
			Fungi	Pneumocystis Jiroveci	
			Atypical Pathogen	Mycoplasma Pneumoniae, Chlamydia pneumoniae, Chlamydia psittaci, Legionella pneumophila	
		Respiratory Tract Pathogen - 35	Virus	DNA Virus: Adenovirus RNA Virus: Influenza A, Influenza B, Respiratory Syncytial Virus, Parainfluenza Virus(1/2/3), Human Rhinovirus, Human Metapneumovirus, SARS-CoV-2	
			Bacteria	Klebsiella Pneumoniae, Pseudomonas Aeruginosa, Acinetobacter Baumannii, Escherichia Coli, Pseudomonas Maltophilia, Enterobacter Cloacae, Burkholderia Cepacian, Haemophilus Influenzae, Moraxella catarrhalis, Mycobacterium Tuberculosis Complex, Nocardia, Bordetella Pertussis, Staphylococcus Aureus, Streptococcus Pneumoniae, Streptococcus Agalactiae, Streptococcus Pyogenes, Enterococcus	
			Fungi	Candida Albicans, Candida Auricula, Aspergillus Fumigatus, Pneumocystis Jiroveci, Cryptococcus neoformans	
		Pneumonia Pathogen and AMR - 35	Bacteria	Bacteria	Klebsiella Pneumoniae, Pseudomonas Aeruginosa, Acinetobacter Baumannii, Escherichia Coli, Pseudomonas Maltophilia, Enterobacter Cloacae, Burkholderia Cepacian, Haemophilus Influenzae, Moraxella catarrhalis, Mycobacterium Tuberculosis Complex, Nocardia, Bordetella Pertussis, Staphylococcus Aureus, Streptococcus Pneumoniae, Streptococcus Agalactiae, Streptococcus Pyogenes, Enterococcus
				Fungi	Candida Albicans, Candida Auricula, Aspergillus Fumigatus, Pneumocystis Jiroveci, Cryptococcus neoformans
				Atypical Pathogen	Mycoplasma Pneumoniae, Chlamydia pneumoniae, Chlamydia psittaci, Coxiella burnetii, Legionella pneumophila
				AMR	mecAblaKPC, blaNDM, OXA-48, OXA-23, IMP, VanA, VanB

Type	Sample Type	Panel	Pathogen Type	Pathogen List
Gastro-Intestinal (GI) Infections	Anal swab, Faeces	Gastro-Intestinal Pathogen - 25 (Available soon)	Bacteria	Campylobacter (<i>C. jejuni</i> / <i>C. coli</i> / <i>C. upsaliensis</i>), Clostridioides (<i>Clostridium</i>) Difficile (toxin A/B), Plesiomonas Shigelloides, Salmonella, Vibrio (<i>V. parahaemolyticus</i> / <i>V. vulnificus</i> / <i>V. cholerae</i>), Vibrio cholerae, Vibrio fluvialis, Yersinia enterocolitica, Enteraggregative E. Coli (EAEC), Enterotoxigenic E. coli (ETEC), Enteropathogenic E. coli (EPEC), Shiga-like toxin-producing E. coli (STEC), E. coli O157, Shigella/Enteroinvasive E. coli (EIEC), Cronobacter sakazakii, Aeromonas Hydrophila
			Parasite	Cryptosporidium, Cyclospora Cayetanensis, Entamoeba Histolytica, Giardia Lamblia
			Virus	Adenovirus F40/41, Astrovirus, Norovirus GI/GII, Rotavirus A, Sapovirus (I, II, IV, and V)
Kit storage conditions: 4~28°C, for 12 months				

Specifications >>

Dimensions	580*350*305mm	Sample capacity	4
Weight	20KG	Repeatability of fluorescence intensity detection	≤3%
Input voltage	100V-240V~, 50Hz/60Hz	Precision of fluorescence intensity detection	≤5%
Input power	1140W	Temperature accuracy	≤0.5°C
Network adapter	USB, Ethernet RJ45	Operating temperature	15°C~30°C
Fluorescence channels	4	Compatible dyes	FAM, VIC, ROX, Cy5
Detection method	Real-time fluorescence detection		

Application Scenarios >>



Clinical Diagnostics



Public Health Surveillance



Food Safety



Veterinary Clinics



Customs Quarantine



Pathogenic Microbe Research