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## ALL-IN-ONE SOLUTION FOR NUCLEIC ACID TESTING LABORATORIES



### CUSTOMIZED FOR YOUR APPLICATIONS

*Bring Technology to Life !*

# Nucleic acid testing requires extremely stringent laboratory settings

Nucleic acid testing technologies such as real-time PCR and high-throughput sequencing are the key initial diagnostic methods for COVID-19, and also important technologies for the detection of other infectious diseases, the diagnosis of genetic diseases, and precision medicine. Nucleic acid testing is an extremely stringent and sensitive test, with very high requirements for the zoning of the laboratory, internal and external air pressure difference, airflow, material flow, and personnel workflow, and instruments and equipment. And it is necessary to build a dedicated nucleic acid testing laboratory.

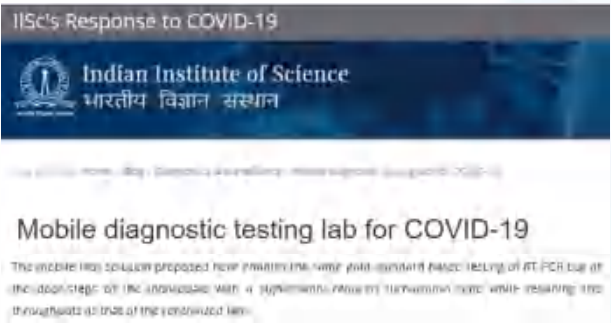
# Nucleic acid testing laboratory-the fortress of epidemic prevention and control

Since the COVID-19 pandemic struck the world, the demand for nucleic acid testing has surged and the shortage of nucleic acid testing laboratories has limited epidemic prevention and control globally. Countries around the world have issued corresponding policies and guidelines for medical institutions, CDCs, and independent clinical laboratories to vigorously build nucleic acid testing laboratories, especially mobile labs, to support the screening and detection capabilities.

The National Health Commission of China issued the "Implementation Opinions on Accelerating Nucleic Acid Testing for COVID-19", requiring that all levels of governments in China should strengthen the construction of nucleic acid testing laboratories, and emphasizing that mobile laboratories should be deployed and applied when necessary.



The Indian Institute of Science recommended mobile labs to improve the detection capabilities for COVID-19.



Mobile laboratories in Alabama, USA



# Tianlong All-in-One Solution for Nucleic Acid Testing Laboratories

With years of experience accumulated in the field of molecular diagnostics, Tianlong has launched the all-in-one solution for nucleic acid testing laboratories, including conventional nucleic acid testing laboratories and mobile laboratories, with the all-around services covering designing, construction, instrument and reagent configuration, validation and registration, personnel training, and quality management, etc.

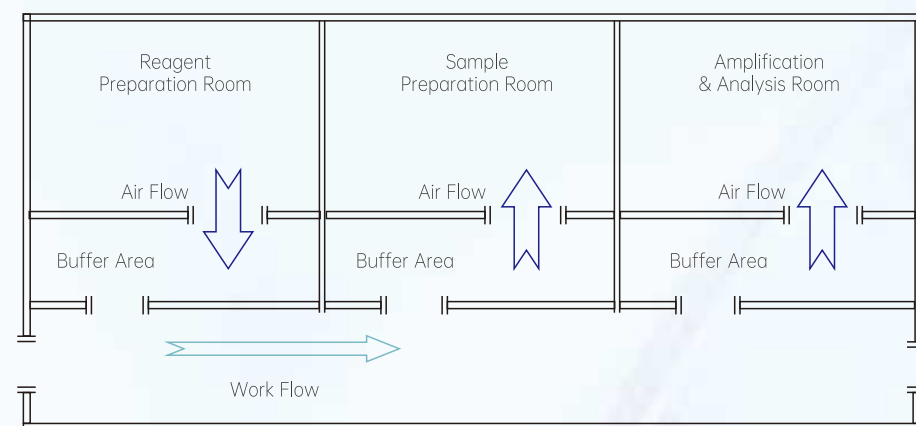




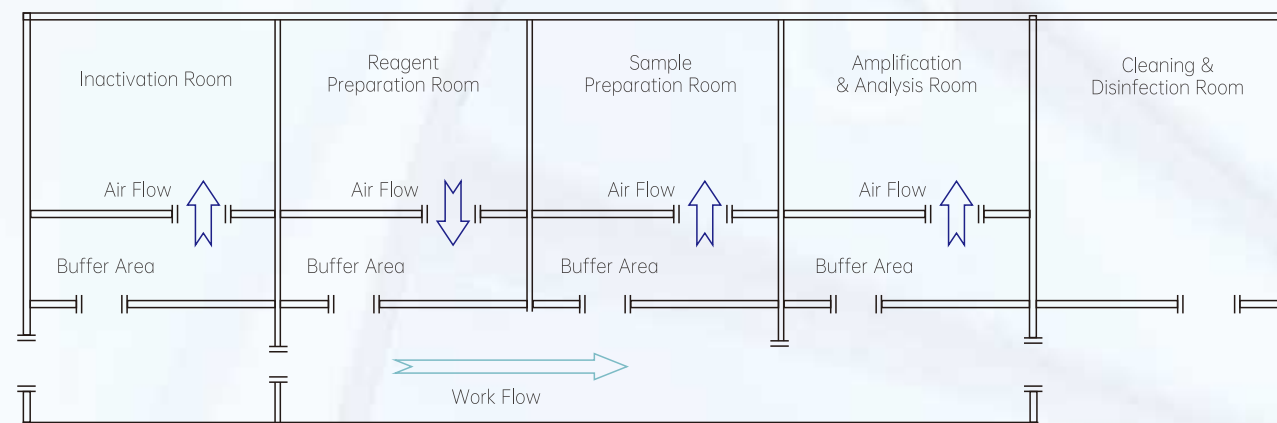
## CONVENTIONAL NUCLEIC ACID TESTING LABORATORY

Built inside the buildings of medical institutions or CDCs, different solutions are available according to the building conditions and specific testing needs.

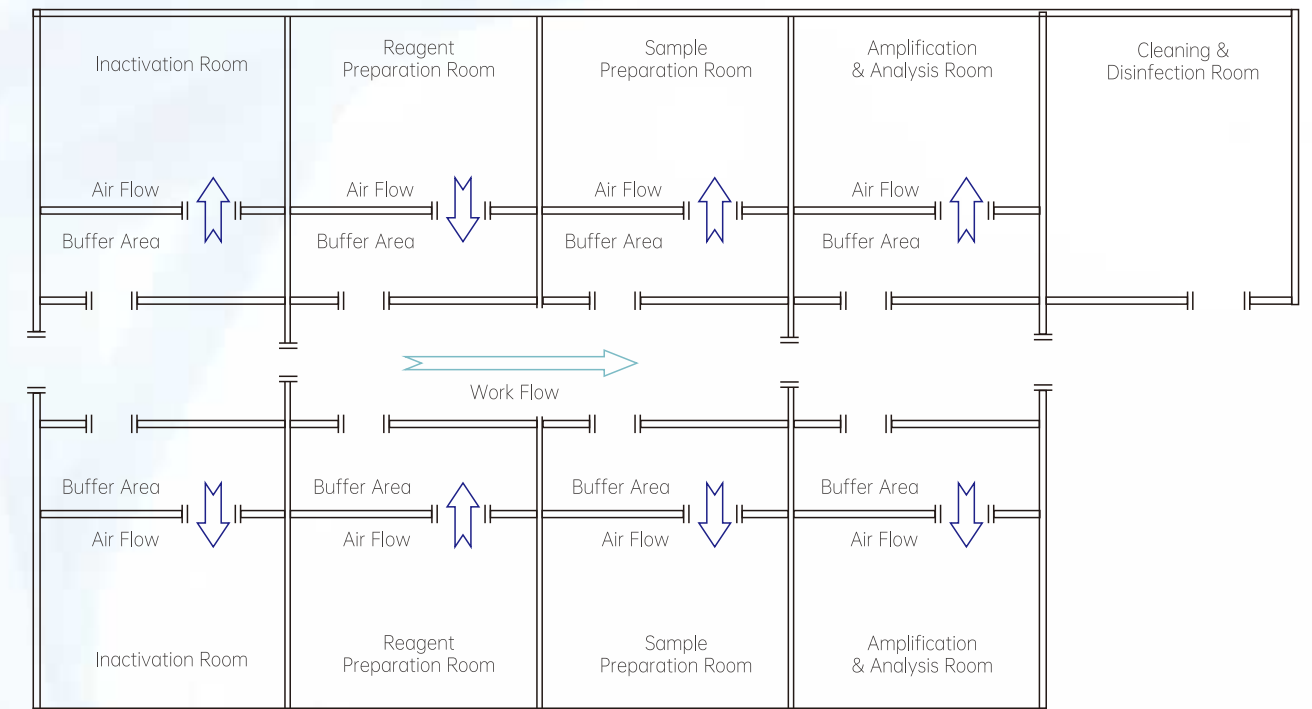
### Solution A General nucleic acid testing



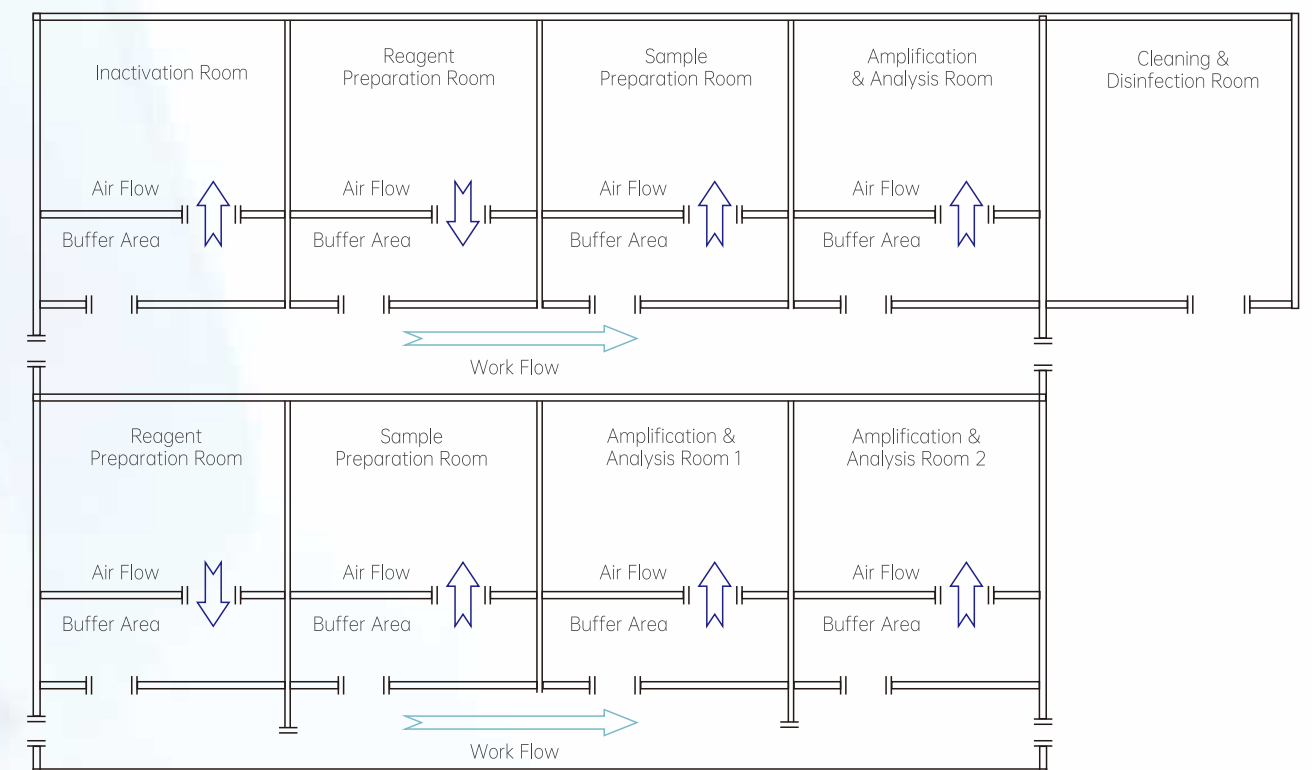
### Solution B For the detection of severe infectious diseases such as COVID-19



### Solution C With general nucleic acid testing zone and severe infectious disease testing zone, suitable for institutions with large sample volumes



### Solution D For institutions with gene sequencing and other scientific research needs





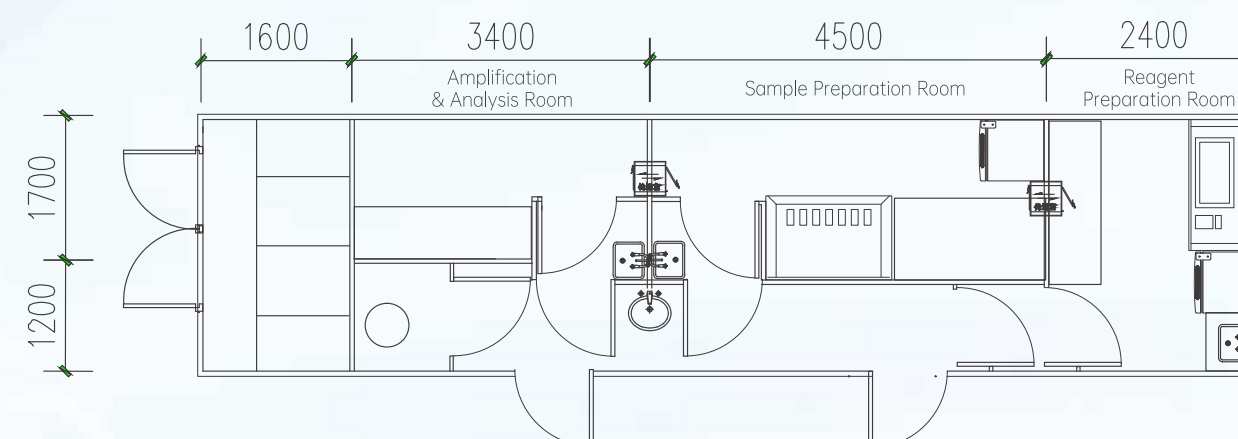
### Solution A

Vehicle-mounted container laboratory

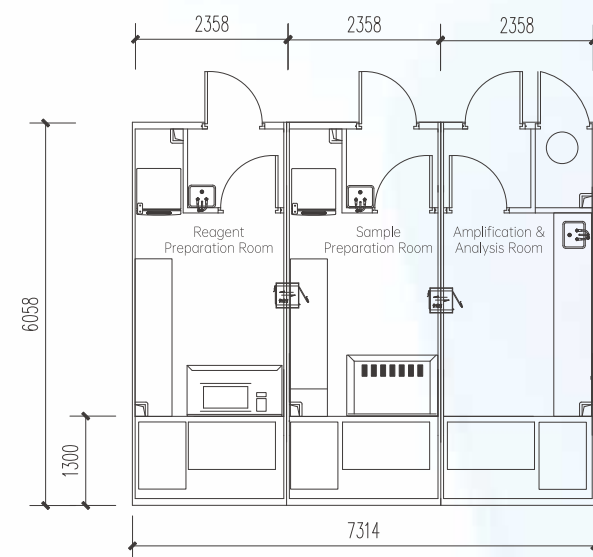
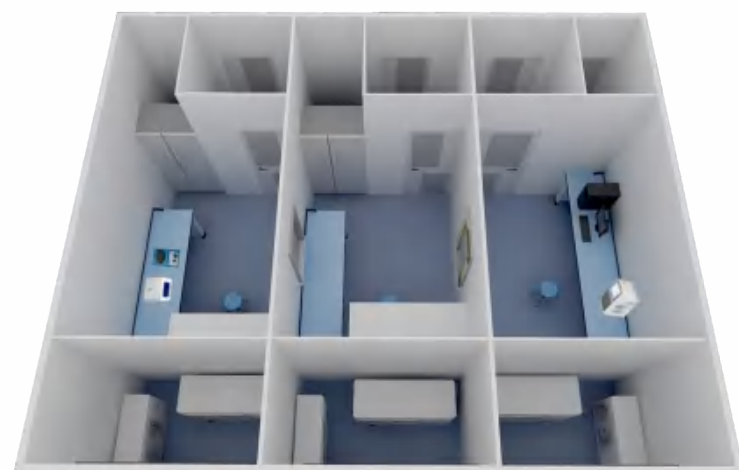


## MOBILE NUCLEIC ACID TESTING LABORATORY

Mobile laboratories are flexible and always on the move, can quickly respond to outbreaks and provide immediate support locally. It can also quickly ease the testing burden of conventional nucleic acid testing laboratories when the sample volume of conventional laboratories surges sharply.







## Solution B

Floor-mounted container laboratory (3 containers attached)



## Solution C

Gas film laboratory



Mobile positive-pressure nucleic acid sampling chamber





## ADVANTAGES OF TIANLONG SOLUTION

### Industry Leader

Tianlong participated in the drafting and formulating of China's first "General Technical Specification for Nucleic Acid Testing Laboratory Cabin (T/CIQA 16-2021)" and "General Technical Specification for Mobile Nucleic Acid Testing Laboratory (T/CIQA 17-2021)" group standards.



### Technological Accumulation

Tianlong has been focusing on nucleic acid testing for decades and has provided laboratory solutions for thousands of medical institutions and CDCs.

### Flexible Options

A variety of laboratory solutions are customized according to your needs.

### All-Around Services

From laboratory site selection, measurement, layout, designing, construction, instrument and reagent equipment, laboratory validation, and personnel training, etc., all along with you throughout the process. One solution for all needs.



## TIANLONG CLIENTS



Xijing Hospital (One of the Top 10 hospitals in China)



Yunnan Provincial Center for Disease Control and Prevention



Surabaya Airport, Indonesia



Myanmar Mobile Laboratory