Capital Bio TECHNOLOGY

# DxLab-32A

## Automated Nucleic Acid Purification and Real Time PCR System

## Descriptions

DxLab-32A integrates the functions of nucleic acid extraction and PCR analysis into one system, achieving fully automated operation, and a "sample-in-result-out" workflow. It is equipped with six fluorescence channels and can produce results in as little as 50 minutes, greatly improving detection efficiency, as well as saving a lot of manpower and time.

## Features

01 Fast Workflow

High heating rate leads to high reaction effciency and reduced reaction time.

02 Sample in, answers out

It eliminates problems with conventional nucleic acid analysis, which takes a long time and depends on personnel, equipment, and venues.

## Applications

| | | |
|---|---|---|
| Hospital outpatient clinics | Testing institutions | Customs |
| Airports | Mobile vehicle laboratories | Universities and Research institutes |

## Specifications

| Parameters | Description | Parameters | Description |
|---|---|---|---|
| Throughput | 1~32 | Optical Channels | 6 Channels: FAM, HEX, ROX, CY5, QUASAR705, and Atto425 |
| Maximum Heating Rate | ⩾10 °C/s | Fluorescence Intensity Detection Precision | ⩽5% |
| Maximum Cooling Rate | ⩾6.5 °C/s | Fluorescence Intensity Detection Repeatability | ⩽1% |
| Temperature Control Precision | ⩽0.1°C | Inter-channel Fluorescence Interference Threshold | 10% |
| Reaction Volume | 15~100 μL | Melting Curve Temperature Range | 35.0°C~95.0°C |
| Temperature Uniformity | ±0.1°C | Sample Detection Repeatability | ⩽3% |
| Nucleic Acid Extraction Consistency | ⩽5% | Pipetting Accuracy | ⩽±5% (⩽10 μL); ⩽±3.5% (⩽11 μL~50 μL) |
| Weight | 75 (±2) Kg | Dimensions | 662 mm×667 mm×519 mm |
| Voltage | AC220V | Frequency | 50HZ |
| Power | 1200VA | | |

## Working Process

01

Adding samples

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02

Instrument and reagent cartridge can automate nucleic acid extraction,purification, pipetting, amplification detection, etc. without manual operation.

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03

Complete whole detection within 50 mins, and can detect 1~32 targets.


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