
DNA/RNA
extraction-free

60 minutes
Sample-to-answer
in just 60 minutes


2°C — 30°C
Test kits transport
at 2-30°C

Medical

MNCHIP - Molecular Diagnostics



Real-time PCR Analyzer Pointcare® mM1



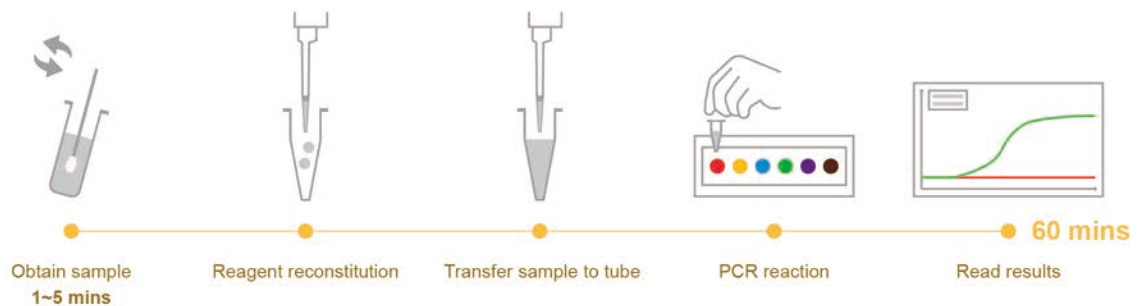
MNCHIP

Core Technologies

● Extraction-free

Based on traditional PCR methods, MNCHIP simplified the multi-step process and turned it into a one-step qPCR test method by eliminating the traditional sample-preparation and DNA/RNA extraction steps.

MNCHIP extraction-free qPCR



Traditional qPCR method



✓ Extraction-free

Easy to use

Sample processing within 3 minutes
One-step sample loading, easy to operate and simple training

Fast sample-to-answer time

Sample to answer in about 60 minutes

Cost-effective

Obviating the need for RNA/DNA purification reagents
Test kits transport and storage at 2-30°C, saving cost

Low contamination risk

Avoid risk of biosafety and carryover contamination when handling sample

High sensitivity and amplification efficiency

Inhibitor-resistant PCR reagents, improving the overall diagnostic sensitivity by reducing the number of inhibited reactions
High efficiency in DNA amplification

✓ TaqMan technology

High specificity

Specific hybridization between probe and target region of DNA is required to generate fluorescence signal, so that DNA detection specificity is improved.

Multiplex real-time PCR

Probe labeled with different, distinguishable dyes allows amplification and detection of two distinct sequences in one reaction tube.

Innovation & Integration

Compact footprint

Our trusted PCR analyzer can fit on any workbench with dimension of 21.5cm long and 12.5cm wide.

The portable device which is refined down to just 1.5kg can be carried anywhere in a case or even a backpack.

User friendly software

The 4.3-inch touch responsive screen and user-friendly operating interface for your smooth operating experience

Preset software with patented design, ideal for fast and reliable testing

Analyzing the data and displaying Real-time amplification plots independently and automatically

Accurate temperature control system

Pointcare mM1 adopts MCH heater, saving more than 20%~30% power effect comparing to the PTC heater. Highly efficient and more environmental.

Temperature control is uniform and accurate with nature of fast ramping speed.

Excellent optical system

Lifetime maintenance-free ultra-bright LED cold light source with a large signal value and high stability

With the bottom-lighting technology of the reaction tube, improving the signal-to-noise ratio

Dual-colour fluorescence acquisition for 6 wells, providing more results at a time

Stabilized lyophilized reagents

Room-temperature-stable PCR reagents, saving shipping & storage cost

Elimination of pipetting errors and reduction of possible cross-contamination

Allowing very fast rehydration and reactivation without impacting its performance post rehydration

Application & Use Cases



Health care

Detect Pathogens such as SARS-CoV-1
Fit any clinic, urgent care or satellite location



Food safety

Food and beverage production
Water and environmental testing and regulation



Customs control

Identify and monitor epidemic situation
Biological safety

Test Kits

Real-Time PCR Kit for Detection of 2019-nCoV
Real-Time PCR Kit for Detection of FluA/FluB
Real-Time PCR Kit for Detection of HIV-1
Real-Time PCR Kit for Detection of CT
Real-Time PCR Kit for Detection of NG
Real-Time PCR Kit for Detection of UU
Real-Time PCR Kit for Detection of CT/NG
Real-Time PCR Kit for Detection of MRSA/SA
Real-Time PCR Kit for Detection of vanA/vanB
...

* More test kits coming soon...

Specifications

Sample Throughput	6 wells
DNA/RNA Extraction	Extraction-free
Sample Type	Oropharyngeal Swab * Please refer to package inserts for details.
Reaction Volume	25µL
Test Time	60 minutes
Fluorescence Channels	2channels: CH1:FAM CH2:ROX
Optical	Light Source: Maintenance-free LED Detector: Photodiodes
Temperature Control	MCH heating / Air cooling technology
Heating Rate	6°C/s
Dimensions	210mm(L)×125mm(W)×175mm(H) 1.5kg
Network Connection	RS232, USB2.0, 3G, Wifi

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