

CapitalBio® RTIsochip™ –A

Isothermal Amplification Microfluidic Chip Analyzer

Creative microfluidic disc-type chip technology, advanced and efficient

Introduction

The CapitalBio® RTIsochip™ –A Isothermal Amplification Microfluidic Chip Nucleic Acid Analyzer and its supporting disc-type chip is the new platform developed by CapitalBio for microbial nucleic acid rapid detection



CapitalBio® RTIsochip™ –A
Isothermal Amplification microfluidic Chip
Nucleic Acid Analyzer
GXZZ 20173401354

Features

★ Exclusive microfluidic disc-type chip technology

- **Small specimen consumption:** it needs only 1.4μl for each reaction, saving the reaction reagent greatly
- **High-flux test:** there are 24 channels for one chip, applying to parallel test of multiple indexes
- **Unique production technique:** it avoids cross contamination of different reaction tanks to a great extent

★ Simple Operation

- It is equipped with real-time fluorescent test and supporting AI judgment software
- The test report can be printed directly
- The size of instrument panel is similar with that of laptop

★ Unique isothermal amplification test technology

- With isothermal amplification test technology, it will obtain the result in 20 min at the soonest
- Compared with PCR perforated plate amplification, it is easier to operate and needs smaller reaction system

★ High Sensitivity and Specificity

- Can analyze and get the result with only 10-103 nucleic acid copies
- Taking respiratory pathogenic bacteria test kit as an example, the specificity experiment shows: no cross reaction between 13 tested pathogenic bacteria and 28 kinds of other common respiratory bacteria or the bacteria with close relationship

Application Field

★ Food Safety

- Food-borne pathogenic microorganism test

★ Agricultural Product Test

- Transgenic crops test
- Plant disease etc.

★ Medical Diagnosis

- Respiratory virus test and etc.

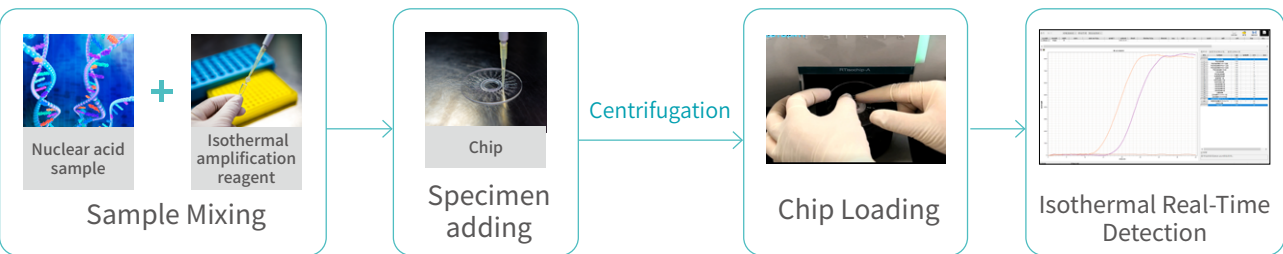
★ Animal Husbandry and Aquaculture

- Pathogenic microorganism test, such as cow mastitis

★ Environment Field

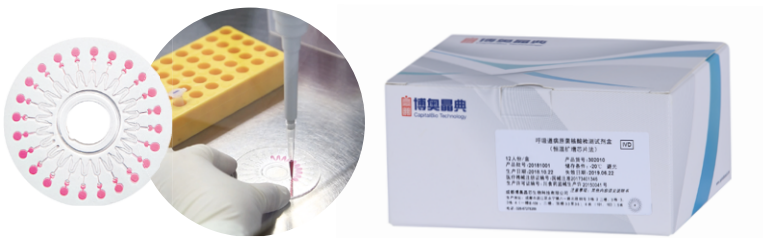
- Pathogenic microorganism test in environment and water

Detection Process



← The whole process is around 50 mins →

Applicable Detection Kit



Respiratory Pathogens Nucleic Acid Detection Kit (Isothermal Amplification on Disk Chip)

Parameters

Temperature Adjustment Accuracy	0.5°C
Sensitivity	10~10 ³ copies/ reaction
Test Index	24-Channel Chip, Multiple indexes
Test time	≤ 50 min
Instrument Size	340mm(L) *280mm (W) *160mm (H)
Instrument Weight	8kg

CapitalBio Technology

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