

RAA-F1620 Isothermal Nucleic Acid Amplification Detector



Working Principle

Under the constant temperature provided by the instrument, the nucleic acid fragments undergo specific amplification, and the amplified fragments bind with fluorescent dyes and are induced to produce fluorescent signals under the excitation of the excitation light source. The fluorescent signals are transmitted through the optical circuit and converted into electrical signals, which are captured by the circuit and converted into fluorescent data, and finally the signals are processed by the software to determine the negative/positive results.

Intended Use

Based on RAA isothermal nucleic acid amplification technology, together with the supporting detection reagents, RAA-F1620 can be used for qualitative detection of target nucleic acids. It is widely used in the fields of inspection and quarantine, disease prevention and control, food safety, species identification, and environmental microorganisms detection.

Product Features

Isothermal &Rapid

39 °C,
Complete
detection
in 5~15 min

Portable & Flexible

Small and portable
Inspection
at anytime
and anywhere

Wide Application

100-240VAC wide
voltage design, Applicable
to multiple countries
and various detection fields

Easy Operation

One-button
operation
Just need
simple training

Accurate &Intelligent

RAA core
algorithm
Intelligent result
interpretation

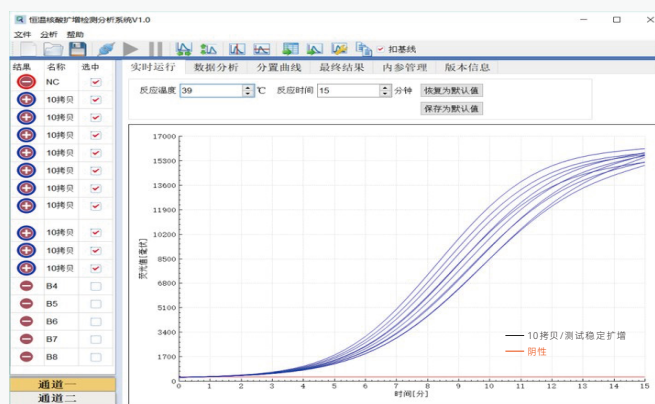
Safe &Reliable

Transport lock
design
Overheating
protection

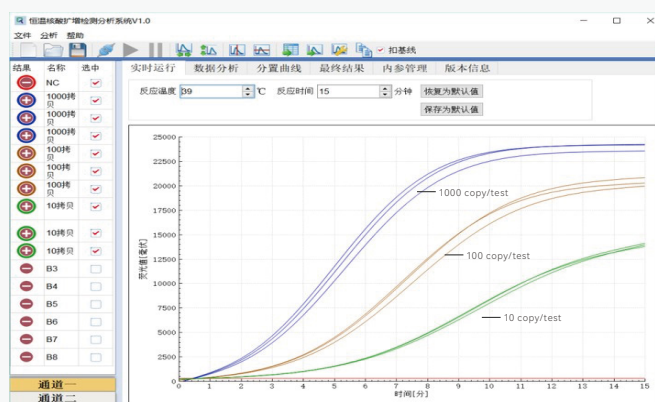
Basic Parameters

Item	Parameter
Model number	RAA-F1620
Module specifications	0.2mL×16
Temperature setting range	37-42°C
Time setting range	1-500min
Applicable probe	FAM; HEX
Number of detection channels	Dual channel
RJ45 interface	Used to export experimental data
USB interface	Used to copy experimental data
RS232 interface	Used to connect instrument and computer
Dimension L×W×H	350×300×120mm
Weight	Net weight 4kg

Application Instances



ASFV project repeatability validation experiment



ASFV project sensitivity validation experiment

About us

Wuxi Qitian Biological Science Instruments Co., Ltd is a holding subsidiary of Jiangsu Qitian Gene Biotechnology Co., Ltd, focusing on the research and development and application of isothermal nucleic acid amplification technology and supporting instruments of rapid molecular detection. Participating in major project of the national 13th Five-Year Plan, special project of emergency response to public safety control and prevention of the Ministry of Science and Technology and the unveiling and commanding project to tackle key technology of COVID-19 control and prevention in Wuxi and other projects. The company has completed the sample extraction and pretreatment system and the design of multichannel RAA fluorescent detector and algorithm model of fluorescence detection and its first-generation product isothermal nucleic acid fluorescent detector has obtained national Class III registration certificate to meet the requirements of market access. The company has RAA fluorescent quantification algorithm and sample pretreatment and other core patent technology and many fluorescent detection software copyrights. With the quality policy of "Committed to innovation, Based on quality, Achieve win-win results", the company has created an on-site nucleic acid detection platform to race against time to protect life safety.

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