



PCR Analyzer



Instrument Introduction

The QX series real-time fluorescent quantitative PCR system utilizes advanced dual PID algorithms and temperature control technologies, combined with a maintenance-free optical system and flexible connection and operation modes. With faster heating and cooling rates and precise temperature control, it ensures the accuracy and reliability of data. Paired with data processing software, the QX series integrates fluorescence signal processing, specialized computational methods, and rigorous statistical analysis functions into a one-stop solution. From nucleic acid to protein research, it meets various experimental needs, redefining the research-grade fluorescent quantitative PCR system.



QX Series

Instrument Features:

1、 Precise Temperature Control with Fast Heating and Cooling

- Multiple ultra-high precision temperature sensors with dual PID temperature control technology.
- Industry-leading heating and cooling rates while ensuring temperature accuracy and uniformity.
- 12 temperature gradients.

2、 User-Friendly Operation and Seamless Connectivity

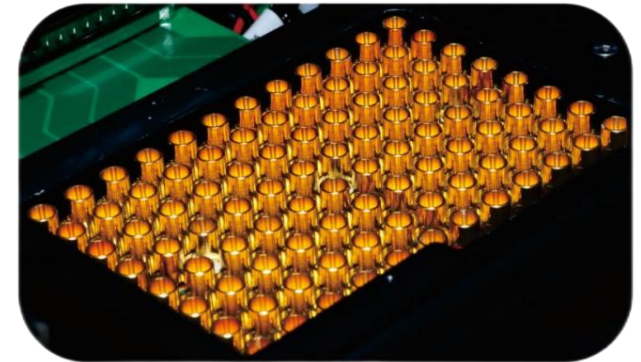
- Large touchscreen for independent device operation.
- Remote control and management via Ethernet or Wi-Fi.
- Automatic wireless transmission of experimental results to designated email.
- Automatic shutdown per user instructions.

3、 One-Stop Data Analysis

- Comprehensive data analysis module.
- Efficient data processing and visualization tools.
- Rigorous statistical analysis tools.

4、 High-Sensitivity Optical System

- Balanced wide-spectrum LED excitation light source, ensuring efficient excitation across all channels.
- High-sensitivity SCMOS detector for rapid reading of even the faintest fluorescence signals.
- Flexible configuration with upgradeable fluorescence channels.
- No optical path difference, eliminating the need for reference fluorescence calibration.



Instrument Introduction:

The Digital Matrix Digital PCR System is based on a novel microfluidic chip design that disperses nucleic acid molecules into tens of thousands of independent micro-reaction units. Each reaction unit undergoes independent amplification and fluorescence signal detection. Utilizing the principles of Poisson distribution, it enables absolute quantification of targets within the reaction system. This system features independence from standard reference materials, high tolerance to inhibitors, exceptional sensitivity, accuracy, and excellent reproducibility, representing a third-generation absolute quantification analysis technology that surpasses real-time fluorescence quantitative PCR.



Digital Matrix Series

Instrument Features:

1、 Higher Sensitivity

Overcomes the impact of homologous background nucleic acids, improving detection rates.

2、 Higher Data Precision

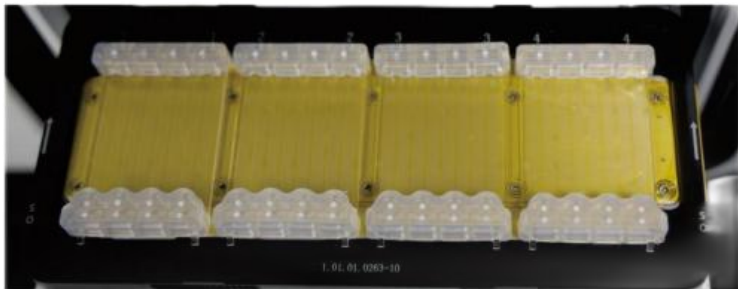
Detects even the slightest concentration changes.

3、 Enhanced Tolerance to PCR Inhibitors

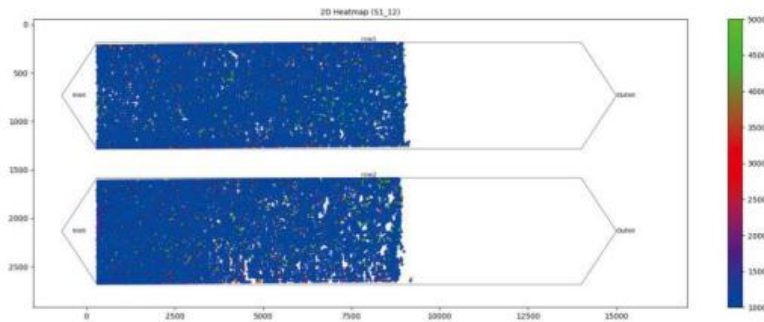
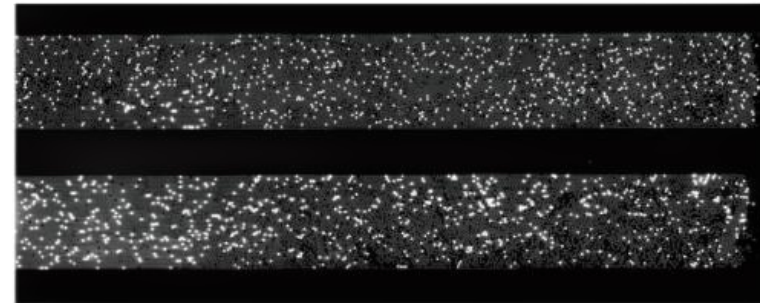
Suitable for a variety of samples, increasing positive detection rates.

4、 Absolute Quantification Without Standard Curve

Assignment/Calibration of nucleic acid standards.



Microdroplet generation and amplification integration



Precise measurement of microdroplet size, traceable

Instrument Introduction:

The EasyAmp Series Intelligent High-Speed PCR System is a high-performance PCR instrument designed to meet your experimental needs, whether for standard PCR, gradient PCR, Touchdown PCR, nested PCR, or long-fragment PCR. Equipped with a highly precise temperature control system and user-friendly touchscreen software, it ensures superior temperature accuracy and uniformity while maintaining rapid heating and cooling rates. This system delivers exceptional accuracy, efficiency, and reliability for all your PCR experiments.



Easy AMP Series

Instrument Features:

1、 Multiple Applications

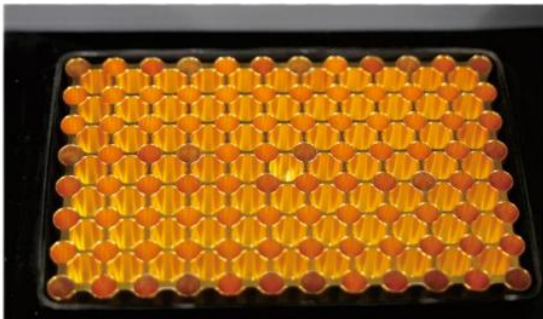
Suitable for a variety of applications including standard PCR, gradient PCR, Touchdown PCR, nested PCR, long-fragment PCR, and isothermal amplification.

2、 Temperature Gradient Function

Supports simultaneous setting of 12 temperature gradients, optimizing valuable experimental resources.

3、 Independent Incubation Module

Can be used as a metal bath with precise incubation temperatures.



4、 User-Friendly Interface

Features a color LCD touchscreen with a large display for real-time monitoring of the process.

5、 Gesture Recognition and QR Code Template Management

Enables hands-free operation, reducing the risk of sample contamination.

6、 Operating Software

The intuitive software interface facilitates experiment setup and data acquisition, with an option to switch between Chinese and English for different user preferences.



Product Features:

- Compatible Consumables: PCR plates, ELISA plates, 0.1mL, 0.2mL PCR 8-strip tubes
- Compatible Film Types: Pressure-sensitive film, adhesive film
- Flexible adjustment of roller pressure, position, and other parameters
- Sealing completed in as fast as 20 seconds
- Adapters are easy to replace and customizable
- Tight seal, no evaporation, no interference with optical signals, excellent consistency and reliability



PS-S1

Product Features:

- Instant centrifuge specifically designed for microplates
- Motor with active brake, decelerates within 10 seconds
- Weighted base plate ensures stable, vibration-free operation during startup and shutdown
- Spacious design for easy handling and access



PD2

Product Features:

- Composite rotor design allows simultaneous centrifugation of 0.1mL, 0.2mL, 8-tube, 0.5mL, 1.5mL, and 2mL EP tubes.
- Speed: 5000 rpm, Centrifugal Force: 1700g
- Two stop modes: Instant stop and gradual stop, meeting different usage scenarios.
- Brushless motor for extended lifespan.



Mini5k

Product Features:

- Pressure sensor for precise touch recognition; operates upon contact
- Zero-degree silicone foot pads for superior anti-vibration performance; no slipping or rotation, ensuring no interference with other equipment
- Brushless motor for enhanced durability and extended lifespan
- Multiple vibration module adapters available for selection
- Digital display with adjustable speed for intuitive operation



TD-45ovB

Ultra-Fast Real-Time Quantitative PCR Analyzer Model nQ16-X4 and Model nQ16T-X4

Product Description:

nQ16-X4 and nQ16T-X4 are easy to use 16-wells Real-Time Quantitative PCR system.

The small footprint of platform and Ultra-fast ramping speed make it ideal for point of care and on site testing applications.

The instrument can be configured to 4-channels and applies in bio-research, rapid diagnostic of human pathogens, food safety test , veterinary & agriculture pathogens, etc detections.



nQ16-X4 Real time PCR

nQ16T-X4 Touched
Screen Real time PCR



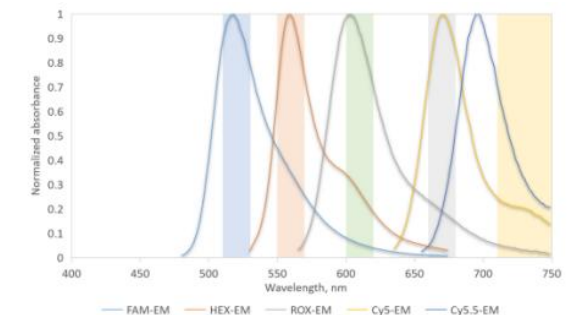
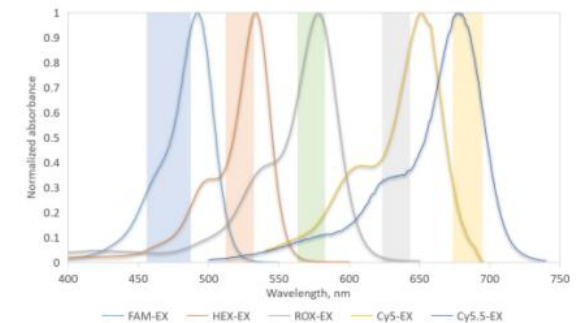
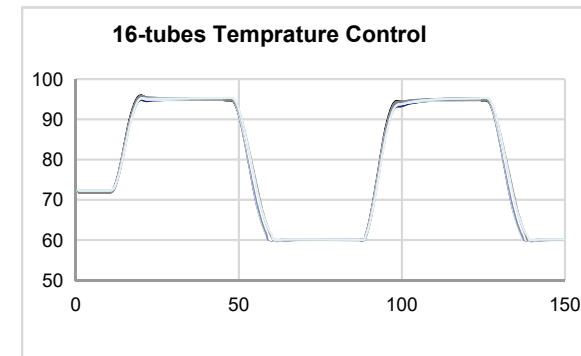
Product Features:

Ultra-fast and Precise Thermal Cycling - nQ16.

- High-efficiency gold-plated peliter provides heating and cooling rate up to 10° C/s, completing 45 cycle amplification with 25 mins.
- Innovative alloy block design provides high temperature uniformity of $\pm 0.15^\circ$ C.
- With the specially designed cooling system, it can maintain high-speed heating and cooling with an average operating noise of 50 dB.

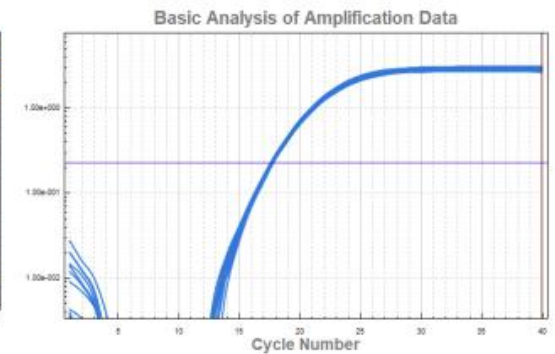
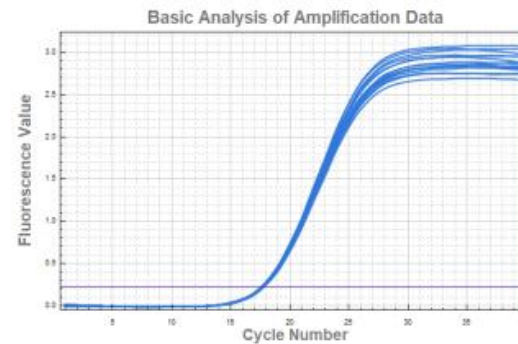
Innovative Optic Design.

- Based on confocal scanning fluorescence detection technology, it can effectively remove the interference of background light and excitation light, obtain fluorescent signals with a high signal-to-noise ratio, and save the use of fluorescent probes and dyes.
- High-performance, long-life single-color LEDs are used as excitation light sources, without thermal attenuation, and maintenance-free for life.
- High-performance silicon PMT can obtain high fluorescence signals under weak excitation light and reduce photobleaching.
- The instrument uses linear fluorescence time-sharing scanning technology to ensure the uniformity of all fluorescence acquisitions, improving the accuracy and uniformity of CT. Thereby, the edge effects is effectively reduced and ROX calibration is not required.



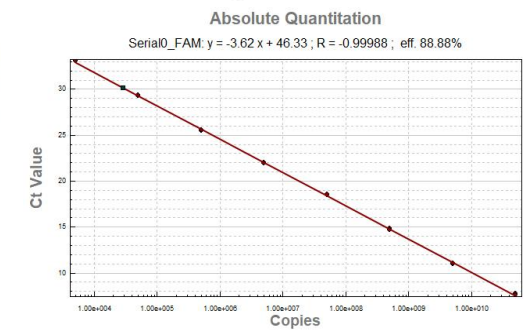
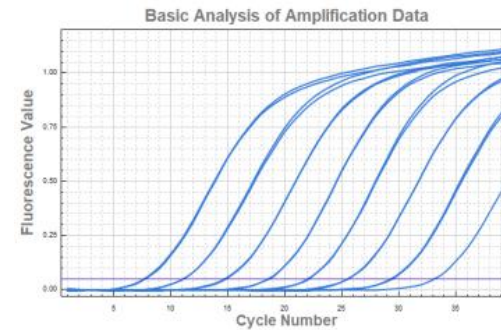
Excellent Reproducibility:

Robust design ensures superior uniformity from run to run . Amplification curves for 16 replicates shown on a linear plot a logarithmic plot. Average quantification cycle (Cq)= 17.8 ± 0.10 .



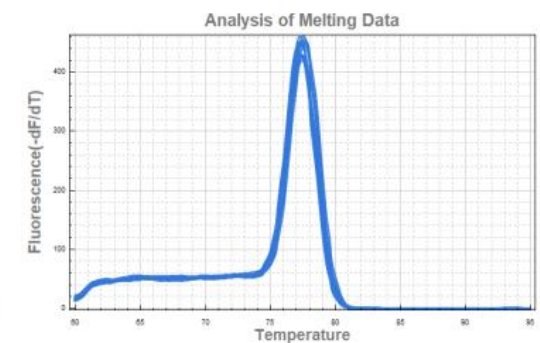
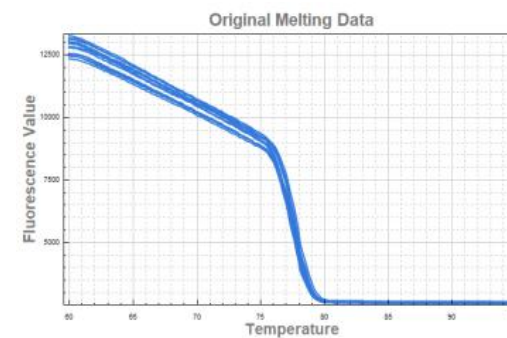
Up to 10-log dynamic range:

Results on the nQ16-X4 system show excellent reproducibility and resolution down to very low copy numbers.



Melting Curve Analysis:

16 replicates of human genomic DNA were amplified using SYBR reagent . The reactions were run under fast mode, showing thermal uniformity as measured by the derivative peak with a melting temperature (Tm) of 77.5°C (Standard deviation 0.05°C).



High Efficiency In Multiplex:

The system enables the analysis of target genes using a standard curve. It provides 10-fold dynamic range and gives excellent linearity and efficiency of 100%.

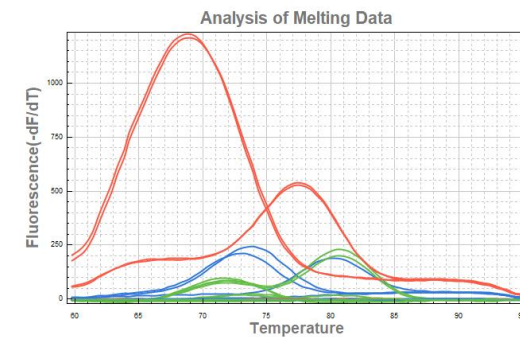
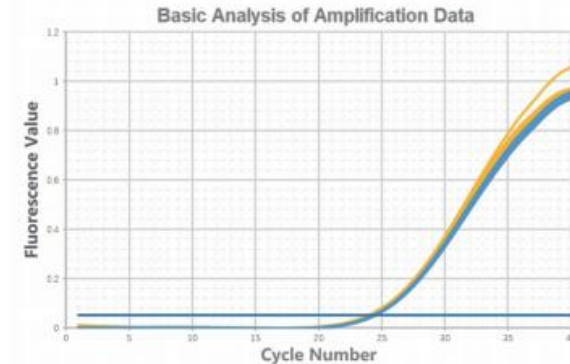
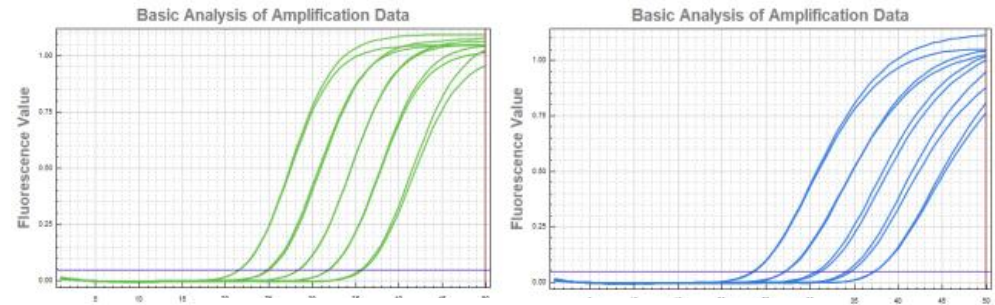
Ultra-Fast Model - nQ16:

Benefit from the innovative data gathering design and high-speed temperature control system, the detection time of the 5-colors and 16-wells can be shortened to 2 seconds, which can minimize the difference in PCR extension time of different wells caused by the detection time.

The experiment with 40 cycles can be completed within 20 mins. The yellow curve was standard speed (60 mins for 40 cycles) and the blue curve was Fast mode (25 mins for 40 cycles).

Multi-Melting Curve Analysis - nQ16:

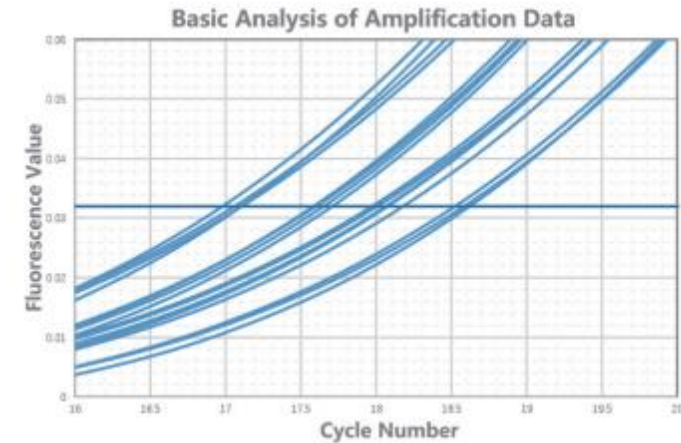
The system enables the analysis of up to 5 target genes in one reaction with Multi-Melting Curve Analysis. The melting point temperature range from 40°C-95°C, with 0.5°C resolution in all fluorescence channels, and provides over 4 x 5 target in a single tube reaction.



High Resolution to Detect 1.33-Fold:

The excellent uniformity of temperature together with quick detection of data guarantee the reaction temperature and time to be identical between different tubes, so it can reliably detect 1.33-fold differences in target amount.

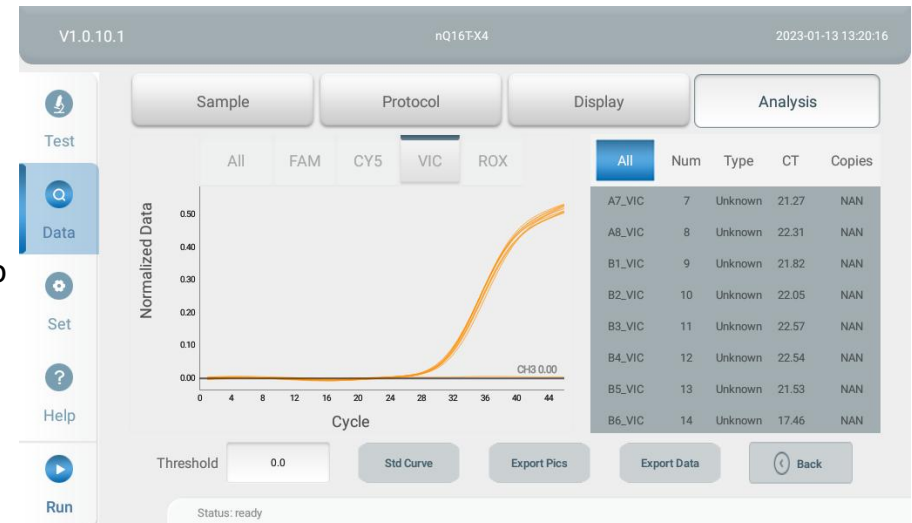
The figure shows the curve of 4 gradient dilutions: 2.25C, 1.5C, 1.33C, 1C, each concentration has 4 replicates.



User-Friendly Software Interface Design:

The software of nQ16 uses a navigational operation interface, which is intuitive and easy to use. The unique project management design helps users efficiently manage common detection items and quickly complete the experimental setup. The user can create a project including the experimental setting (experiment type, detection target, PCR reaction protocol etc), information. Before the experiment, the user can select the existing project and only needs to set the reaction well position to quickly start the run. Moreover, it supports one-click sample information import to shorten the time to setup sample information.

nQ16T equipped with a 7-inch touch screen, which can be operated independently. The operation interface is simple and easy to use. The instrument can be placed in the quick detection suitcase, mobile laboratories etc, and users can quickly carry out on-site test.



Specification:

Type: nQ16-4X Real Time PCR and nQ16T-4X Real Time PCR

Sample Capacity: 16

Compatible Consumables: 0.1ml clear tube, 0.1ml clear 8-strip tube

Sample Volume: 10-50ul

Heating and Cooling Method: Peliter

Maximum Ramping Range: 10° C/s

Temperature Range: 4 - 100 ° C

Accuracy : ±0.10° C

Uniformity: ±0.15° C

Light Source: Single Color LEDs

Detector: SiPMT

Detection Method: Time resolved real time scanning

Excitation/Emission Wavelength: 455-650nm/510-750nm

Detection Channel: 4 (2 & 5 can be customized)

Supported Dyes: FAM/SYBR Green, VIC/JOE/HEX/TET,ROX/Texas Red, Cy5/LIZ

Multiplexing: 4/5

Sensitivity: 1 copy gene

Resolution: 1.33 - fold copies difference in single-plex reaction

Dynamic Range: 10 orders of magnitude

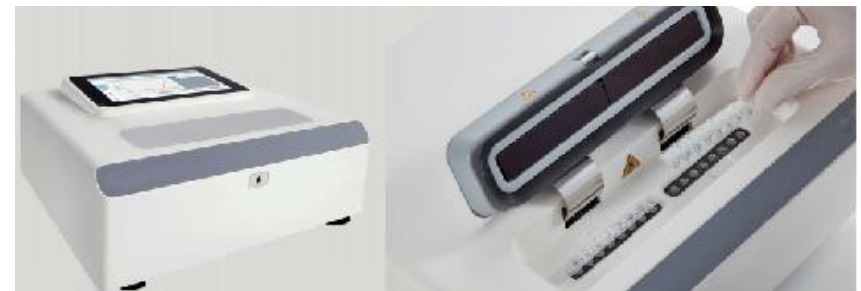
Date Analysis: Absolute quantification and Melting curve

Data Connection: USB, Bluetooth

Operation Model: PC Software

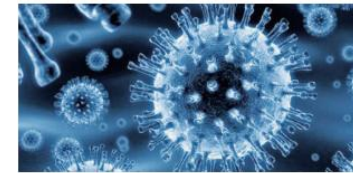
Power: AC100-240V,50/60Hz

Dimension: 300x260x110mm, 5.7kg



Food Testing	Veterinary and Agriculture
With ever increasing demands of clarity on the source and type of products we are consuming, speciation and pathogen detection allow users to do exactly that.	A wide range of veterinary and agricultural pathogen detection.
Mycotoxins.	Avian, Porcine
Speciation.	Bovine, Canine
Allergens.	Ovine - Caprine.
Pathogen Contamination.	Equine.
SARA-CoV-2 on environmental surfaces	Feline.
Human Pathogens	
Respiratory Infections.	Hepatitis Infections.
Sexually Transmitted Diseases.	Human Papillomavirus.
Herpes Viral Infections.	Gastrointestinal Infections.

Application





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