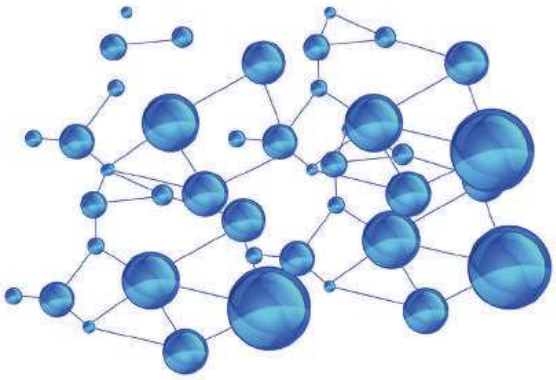
Life Science Equipment

QuataVue Mini 16
Real-time PCR

Ultra-fast Portable Real-time QPCR



8 ℃/s

30 mins

SO LITTLE SPACE | SO MUCH POWER

Ultra-Fast | Portable | Super-Easy

Introduction

In order to meet the needs of on-site rapid and instantaneous detection such as epidemic prevention and control, entry-exit rapid screening, food safety, environmental microorganism identification and small flux scientific research and teaching, Unicorn launched an ultra-fast and portable fluorescence quantitative PCR system QuantaVue Mini 16. The system adopts innovative liquid circulation refrigeration combined with Peltier temperature control technology to ensure getting results quickly and accurately. Light and small equipment size, which can be free from the constraints of the site, meets the on-site instantaneous detection demands. The system supports the application of all common real-time fluorescent quantitative PCR detection modes, including qualitative detection, relative quantification, absolute quantification, genotyping, etc.

Product features

1. Super fast temperature ramp rate， which makes qPCR tests been done within 30 minutes to ensure getting results quickly on site
2. Small and portable, fully meet the on-site instantaneous detection demands of disease control, customs, commodity inspection, environmental protection, etc.
3. Accurate temperature control and detection technology, with the same performance as the desktop qPCR, ensuring the reliability of the experimental results.

Ultra-fast **Portable** **Reliable**

Application

Disease Prevention and Control

Food Safety

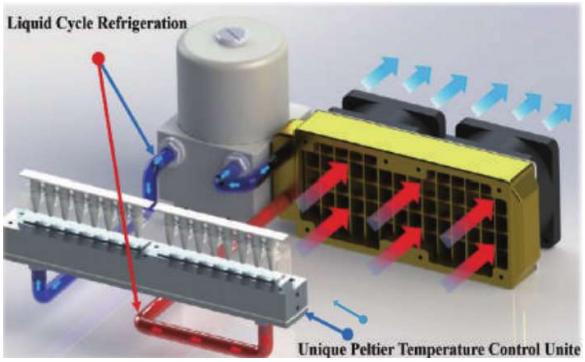
Medical Diagnosis

Scientific Research

Technical Superiority

Innovative liquid circulation refrigeration combined with unique Peltier temperature control technology is adopted to ensure uniform and accurate temperature control performance and realize ultra fast temperature ramp rate. The maximum temperature ramp rate reaches 8 ℃ /s.

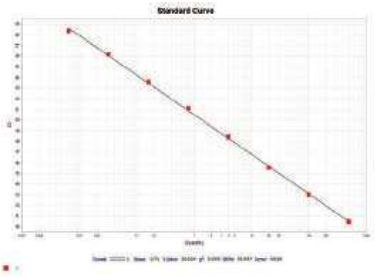
QuantaVue Mini 16 is designed with 16 well position, which can be compatible with the common 0.2ml quantitative PCR transparent reaction tube and the transparent 8-strip reaction tube. The temperature uniformity between wells can be guaranteed (± 0.2



Innovative Thermal Cycler Technology

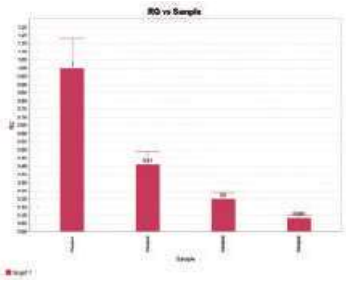
Easy to use Unicorn Analyzer

Software Startup

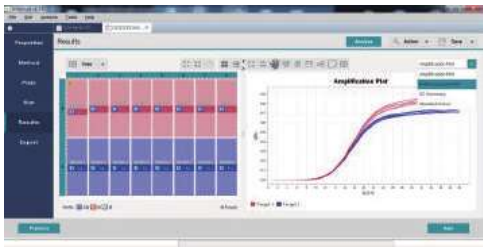


Absolute Quantification

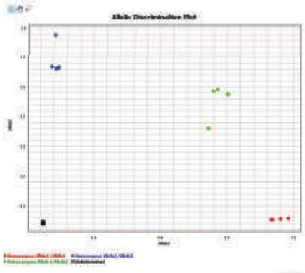
Running Procedure Setting



Relative Quantification

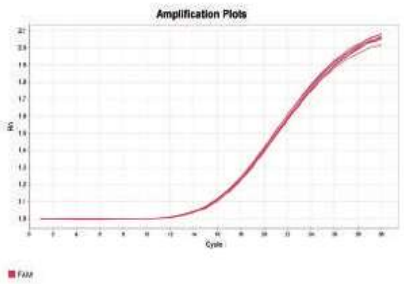


Results Analysis

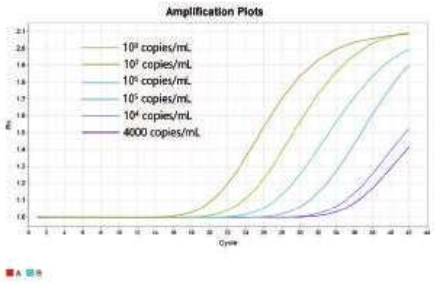


Genotyping

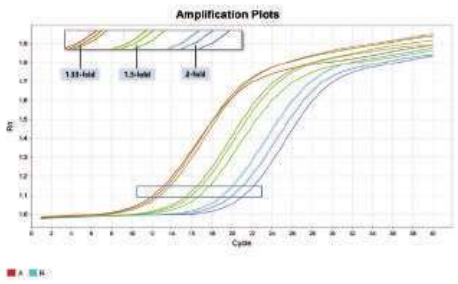
Reliable Results



Excellent Repeatability



High Sensitivity



Outstanding Resolution

- Excellent repeatability (Ct SD < 0.2) and sensitivity (single copy gene detection), ensuring reliable and accurate results
- Combined with the rapid PCR detection kit, 40 cycles of amplification can be completed within 30 minutes.

Technical Specifications

Thermal control		Optical Detection lens	
Sample Capacity	16 (0.2mL PCR tube or strips)	**Light Source**	2 or 4 monochrome efficient LEDs
Reaction Volume	10 - 50 μL	**Optical Detector**	High-performance MPPC
Thermal Cycling Tech	Peltier	**Detection Mode**	Ultra-fast Time-resolved Scanning
Cooling Method	Liquid cycle refrigeration	**Fluorescent Channel**	FAM/SYBR Green, VIC/JOE/HEX/TET, JUN, ROX/Texas Red (optional), Mustang Purple, Cy5/LIZ (optional)
Maximum Ramp Rate	8℃/s	**Running Time**	<30 minutes (combined with rapid kit)
Temp Accuracy	±0.2℃	**Sensitivity**	Single copy of the gene, the difference of 1.33 times concentration can be distinguished
Temp Homogeneity	±0.2℃ @60℃ ±0.2℃ @95℃	**Dynamic Range**	10 orders of magnitude

Other Configurations			
Instrument Noise	<50 dB	**Size**	205×190×98 mm (L×W×H)
Analysis Module	220VAC, 50/60hz	**Operation System**	Windows

Analysis Module
Qualitative Detection, Absolute Quantification, Relative Quantification, Genotyping

Shanghai Unicorn Medical Technology Co., Ltd.

Room J, Building 4, B Zone, No. 925 Yecheng Road, Jiading Industrial Area, Shanghai

Tel: +86 (021) 6082 8473 Cel: +86 173 1710 8636 Email: info@unicornlifescience.com

www.unicornlifescience.com