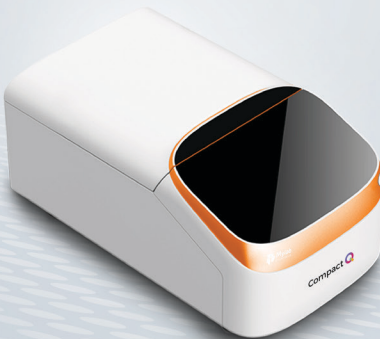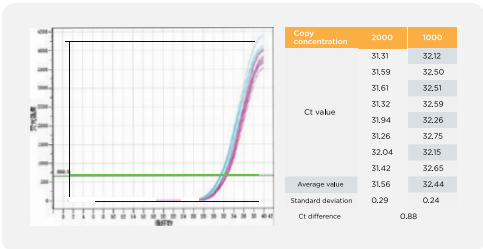# Compact Q

Real-Time PCR Detection System

CE IVD

Powered by Compact Q, Process 16 samples within 40 minutes while maintaining the gold standard accuracy.
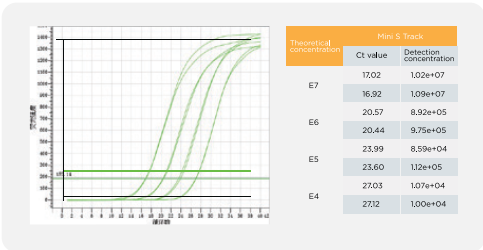
Product Performance

Experiment 1: Experiment of distinguishing between 2000 copy concentration and 1000 copy concentration

Experiment 2: Standard curve performance test of HBV of 5μl

Copy concentration	2000	1000
Ct value	31.31	32.12
	31.59	32.50
	31.61	32.51
	31.32	32.59
	31.94	32.26
	31.26	32.75
	32.04	32.15
	31.42	32.65
Average value	31.56	32.44
Standard deviation	0.29	0.24
Ct difference		0.88

Experimental results show that the Ct difference is extremely close to the perfect theoretical value 1, Compact Q has accurate detection performance, and can perfectly distinguish the detection data at different concentrations.

Theoretical concentration	Mini S Track	
	Ct value	Detection concentration
E7	17.02	1.02e+07
	16.92	1.09e+07
E6	20.57	8.92e+05
	20.44	9.75e+05
E5	23.99	8.59e+04
	23.60	1.12e+05
E4	27.03	1.07e+04
	27.12	1.00e+04

Experimental results show that Compact Q has excellent concentration gradient detection performance and good curve fitting effect.

Key Features & Benefits

Advanced scanning technology with excellent SNR

Exquisite and compact exterior with strong and durable structure

Cutting-edge detection technology and most stable signal
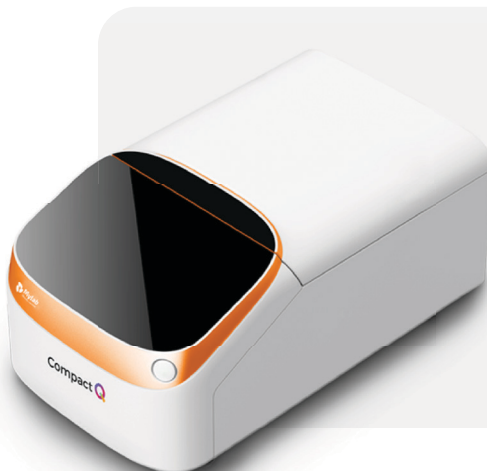
Touch operation interface, easy to operate

Automatic gain function, accurate and reliable data

Complete function configuration & stable equipment performance

Write comes with
MylabCares auto
reporting software

Machine Specifications

Product Name	Compact Q-Fluorescence Quantitative PCR Detection System			
Product model	FQD-16B			
Sample capacity	16x0.2ml single tube (transparent tube)		0.2ml 8 strip tube (transparent tube)	
Reaction system	5-100μl			
Dynamics range	$1\text{-}10^{10}$ Copies/L			
Excitation wavelength	400～700nm			
Fluorescence Emission wavelength	450～750nm			
Temperature range	0-100° C (Minimum increment: 0.1°C)			
Temperature accuracy	± 0.1°C			
Temperature display resolution	0.1°C			
Temperature control accuracy	± 0.1°C			
Temperature uniformity	≤ ± 0.25°C (95°C)			
Maximum temperature rate	5.0°C/s			
Temperature control mode	Block model 、Tube model			
Hot-lid temperature range	30-110°C (adjustable)			
Detection path	F1	F2	F3	F4
Fluorescence dyes	FAM 、SYBR Greenl...	VIC 、HEX 、TET 、JOE 、TAMRA 、CY3 、NED...	ROX 、TEXAS-RED...	CY5 、Quasar-670...
Special functions	Qualitative/absolute quantitative, relative quantitative, SP analysis, fusion curve method genotyping, standard curve, fusion curve, allele identification, gradient, HRM, automatic gain, user defined parameters, etc			
Input power	100-240V, 50/60Hz, (A power adapter is required 180w/24V)			
Signal interface	Netport (connected with PC)			
Dimension(mm)	240×180x160 (L×WxH)			
Net weight	4Kg			
Safeguard and alarm	Support temperature sensor short circuit, open circuit & over-temperature protection & alarm			
Certification	CE, In line with the ROHS requirements			

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CoviSelf | **CoviSwift** | **PathoDetect** | **NATSpert** | **PathoCatch** | **OncoScreen** | **DiscoverSeries** | **AgroDex** | **VetScreen** | Compact **XL**

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