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CEM MEDICAL

IN VITRO DIAGNOSTIC PRODUCTS



SHENZHEN EVERBEST MACHINERY INDUSTRY CO., LTD.
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Real-Time PCR system

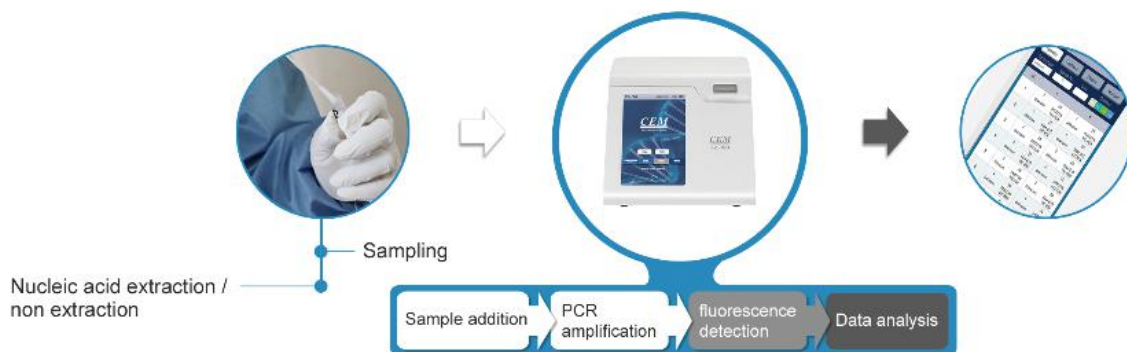
Real-time PCR FZ-100

Fz-100 is the latest real-time PCR instrument of CEM, which is mainly used in nucleic acid detection. Fz-100 is small, easy to operate, flexible, and equipped with 4-channel fluorescence channels; it can adapt to most nucleic acid reagents on the market, and can accurately detect a variety of pathogens and gene targets, with a wide range of application scenarios

- Flexible temperature control and fast detection
- 4-channel multiple fluorescence detection, 16 samples can be detected at a time
- Open and compatible, suitable for a variety of reagents, widely used
- Ergonomics, touch screen tilt design, easy to operate and read the results
- Integrated design, equipped with 8-inch touch control screen, stand-alone operation, no additional computer configuration
- Configure WiFi function to send and share test reports

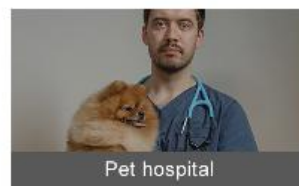


Portable nucleic acid detection system



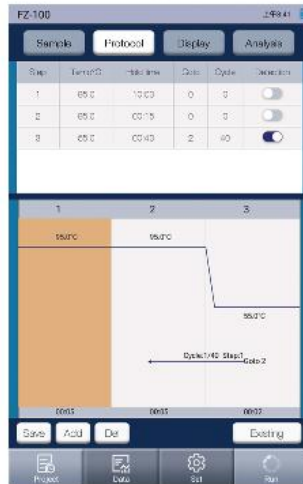
Application scenarios

Small size, light weight, not subject to the constraints of the site, it is very suitable for: hospital POCT, CDC, customs, Airport Quarantine, primary medical institutions, mobile shelter mobile laboratory, field emergency detection, animal quarantine, food safety, scientific research and teaching, etc



Testing process

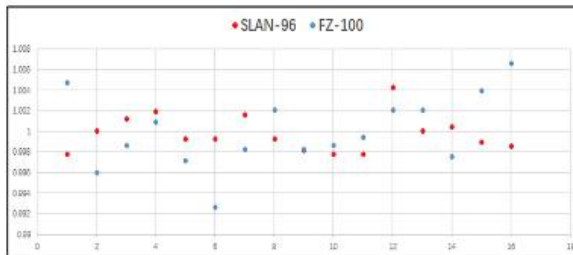
PCR process



PCR analysis



FZ-100 VS SLAN-96P ▼



Source of variance	Among groups	Inside group	Total
SS	6.07615E-07	0.000208415	0.000209022
df	1	28	29
MS	6.07615E-07	7.44339E-06	
F	0.081831541		
P-value	0.777201531		
F crit	4.195971819		

Using sample test, there was no significant difference between FZ-100 and SLAN-96P, and the test results were reliable and consistent.

Technical parameters

Project	Index
Sample capacity	2*8 holes, 0.2ml single tube / 8 row tube, transparent tube
Sample volume	10~50uL
Touch screen	yes
Maximum rate of temperature rise and fall	6.0°C/S
Heating temperature range	4~100°C
Temperature accuracy	±0.2°C@60°C,±0.3°C@95°C
Temperature homogeneity	± 0.2°C
Fluorescent channel	Channel 1 FAM Channel 2 VIC Channel 1 ROX Channel 1 CY5
Analysis method	CT value analysis, absolute quantitative analysis
Size(mm)	250*285*190
Power output	15V/13.4A, input 100-240VAC
Heating Lid	30~110°C
Sensitivity	Single copy gene can be detected
Sample linearity	Correlation coefficient R>0.999
Sample linear range	10 orders of magnitude
Consistency of test results	CV<1%
WIFI	yes
Interface	USB2.0
Operating system	Android
Weight	5kg



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