

Fluorescence Immunoassay Analyzer

Q8 Pro



POCT



Fluorescence Immunoassay Analyzer Q8 Pro

Q8 Pro is a quantitative POCT analyzer based on dry immunoassay fluorescence technology that integrates operation, analysis, and result display. It can automatically complete a series of operations including test card loading, item identification, incubation, detection, card discarding and results print within 15 minutes.



Technical Advantages

Q8 Pro labels antigen or antibody with rare earth element, which effectively eliminates non-specific fluorescence interference and improves analysis sensitivity.

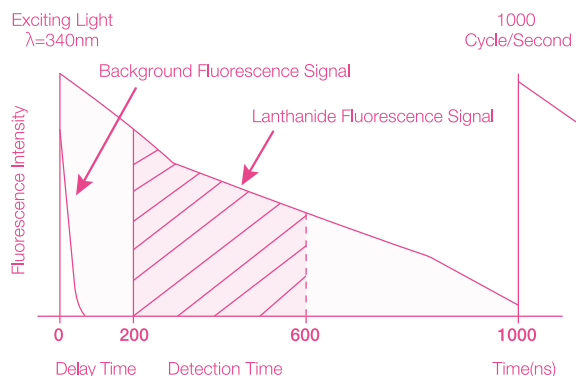


Figure 1: Fluorescence signal decay time comparison

Features

Screen

- 15-inch colorful touch screen, intuitive software interface.
- Real-time monitoring.

Connection

- Result transmission by LIS.

Automatic Test Module

- Automatically recognize item information.
- Temperature stable incubator.
- Advanced rare earth element fluorescent microsphere labeling technology.

Cartridge Export

- External solid waste container, easy to maintain and environment friendly.

Test Channel

- 25 channels, up to 25 different items in one time.
- Time to result within 3-15 minutes.



Parameters

Principle	Fluorescence Immunochromatography
Channel	25
Test Time	3-15 mins
Sample Type	Whole blood, capillary blood, serum, plasma
Incubation Temperature	37.0°C±1.5°C
Data Transmission	LIS
Operation System	Windows 10
Display	15-inch

Storage Capacity	100,000 tests
Software Update	By USB or internet
Power Supply	100-240V~, 50/60 Hz, 150 VA
Temperature	10~30°C
Relative Humidity	30%~85%
Air Pressure	70~106 KPa
Altitude	≤ 3000 m
Dimension	416 mm*395mm*404mm (W*D*H)
Weight	18 Kg

Benefits

Accurate

- Unique rare earth element fluorescent microsphere labeling technology, higher sensitivity
- Complete control solution
- Good correlation with authority manufacturer

Fast

- 25 channels, 120 T/H
- Get results in 3-15 minutes(differ by assay)

Convenient

- Fingertip blood supported for inflammation markers and HbA1c
- One step loading for cardiac markers
- Just 3 steps to operate: Loading→Testing→Reading
- Room temperature transportation and storage for all reagents

Intelligent

- 15-inch full touch screen
- LIS connection
- Inner temperature stable incubator to support accurate result

Application Scenarios



Medium/
Small Laboratory



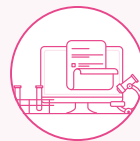
Clinic



Emergency
Department



ICU



Clinical
Department



Ambulance

Test Menu

Test Type	Item	Operation	Sample Type and Volume	Mixture Loading Volume	Reaction Time	Detection Range	Reference Range	Qualification
Cardiac	cTnI	One-Step	WB:100µL Serum/Plasma:70µL	/	15 mins	0.10-50.00 ng/mL	<0.1 ng/mL, low risk of myocardial infarction 0.1-0.3 ng/mL, myocardial damage may occur 0.3-0.5 ng/mL, myocardial infarction may occur ≥0.5 ng/mL, high risk of myocardial infarction	CE NMPA
	cTnT	One-Step	WB:100µL Serum/Plasma:70µL	/	10 mins	0.01-10.00 ng/mL	<0.04 ng/mL	CE NMPA
	cTnT/CK-MB/Myo	One-Step	WB:100µL Serum/Plasma:70µL	/	10 mins	cTnT: 0.01-10.00 ng/mL CK-MB: 1-80 ng/mL Myo: 5-500 ng/mL	cTnT< 0.04 ng/mL CK-MB< 5 ng/mL Myo< 72 ng/mL	CE NMPA
	NT-proBNP	One-Step	WB:100µL Serum/Plasma:70µL	/	10 mins	30-35000 pg/mL	under 75 years old: < 125 pg/mL over 75 years old: < 450 pg/mL	CE NMPA
Inflammation	D-Dimer	One-Step	WB:100µL Plasma:70µL	/	5 mins	0.2-20.0 µg/mL	<0.5 µg/mL	CE NMPA
	PCT	One-Step	WB:100µL Serum/Plasma:70µL	/	10 mins	0.1-100.0 ng/mL	<0.5 ng/mL	CE NMPA
	CRP	Two-Step	WB/Serum/ Plasma:5µL	70µL	3 mins	0.5-200 µg/mL	hs-CRP<1 µg/mL CRP<10 µg/mL	CE NMPA
	IL-6	One-Step	WB:100µL Serum/Plasma:70µL	/	15 mins	5-4000 pg/mL	<7 pg/mL	CE NMPA
Diabetes	SAA	Two-Step	WB/Serum/ Plasma:5µL	70µL	3 mins	3-200 µg/mL	<10 µg/mL	CE NMPA
	HbA1c	Two-Step	WB:5µL	70µL	5 mins	4.0%-14.0% (20-130 mmol/mol)	4.0%-6.0% (20-42 mmol/mol)	CE NMPA
Vitamin	25-OH-VD	Two-Step	WB/Serum/ Plasma:70µL	70µL	15 mins	5.0-120.0 ng/mL	≥ 30 ng/mL	CE NMPA
Thyroid Function	T3	Two-Step	WB/Serum/ Plasma:70µL	70µL	15 mins	0.5-10.0 nmol/L	1.23 nmol/L- 3.07 nmol/L	CE NMPA
	T4	Two-Step	WB/Serum/ Plasma:70µL	70µL	15 mins	12.87-310.0 nmol/L	66-181 nmol/L	CE NMPA
	TSH	One-Step	WB:100µL Serum/Plasma:70µL	/	15 mins	0.1-100.0 mIU/L	0.3 mIU/L-4.2 mIU/L	CE NMPA
SARS-CoV-2	Neutralizing Antibody	One-Step	WB:100µL Serum/Plasma:60µL	/	10 mins	0.03-10 U/mL	<0.3 U/mL	CE
	Antibody	One-Step	WB:100µL Serum/Plasma:60µL	/	10 mins	Qualitative	Qualitative	CE

Coming soon: cTnI/CK-MB/Myo, BNP





Zybio Inc.

Address: Floor 1 to Floor 5, Building 30, No.6 of Taikang Road,
Block C of Jiangqiao Industrial Park, Dadukou District, 400082 Chongqing,
PEOPLE'S REPUBLIC OF CHINA

Tel: +86-23 6895 9999 Fax: +86-23 6869 9779
Email: info@zybio.com Website: www.zybio.com

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