



Fluorescence Immunochromatography Analyzer (EXR 110)

Small but efficient

CE NMPA



POCT



Fluorescence Immunochromatography Analyzer (EXR 110)

EXR 110 is quantitative POCT analyzer based on immunoassay fluorescence technology that integrates operations, 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 15minutes. So EXR 110 is designed to provide diagnostic results quickly and easily.



Structure and Features



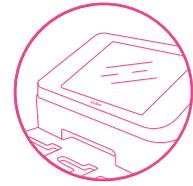
Automatic test module

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



Appearance

- Dimension: 275mm*250mm*186mm
- Weight: 3.2 Kg



Display

- 8-inch colorful touch screen
- Real-time monitoring
- Intuitive and easy-to-use user interface



Printer

- Real-time printing with built-in thermal printer
- External printer is available as well



Connection

- Result transmission with LIS via wired network



Test channel

- Up to 3 different items one time
- Multi-test function
- Time to result within 3-15 mins

Parameters

Principle	Fluorescence Immunochromatography Method	Operation System	Linux
Channel	3	Display	8 inch
Test Time	3-15 mins	Test Mode	Standard / Quick Mode
Sample Type	Whole Blood/ Plasma/ Serum	Card Reading	RFID Card
Incubation Temperature	30°C	Storage Capacity	29000 tests
Data Transmission	Wired network	Software Update	By USB or Internet
Power Supply	100-240V AC, 50/60Hz, 1.4-0.7A	Relative Humidity	20%-85%
Temperature	10-30°C	Dimension	275mm*250mm*186mm
		Weight	3.2 Kg

Technical Advantage

EXR 110 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

Benefits



Fast



Accurate



Convenient



Intelligent



Portable

Application Scenarios



Medium /Small Laboratory



Clinics



Emergency Department



ICU



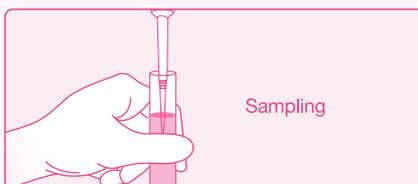
Clinical Department



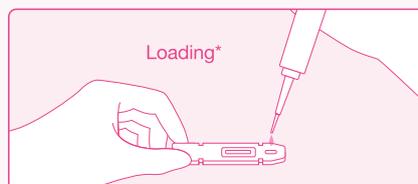
Ambulance

Operation Procedure

Step 1



• Step 2



• Step 3



*Some items need to be diluted, refer to specific item IFU

Test Menu

Test Type	Items	Operation	Sample Type and Volume	Mixture Loading Volume	Reaction Time	Detection Range	Reference Range	Qualification
Cardiac	cTnI	One-Step	WB:100 µL Serum/Plasma:70 µL	/	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:100 µL Serum/Plasma:70 µL	/	10 mins	0,01-10,00 ng/mL	<0,04 ng/mL	CE NMPA
	cTnT/CK-MB/Myo	One-Step	WB:100µL Serum/Plasma:70 µL	/	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:100 µL Serum/Plasma:70 µL	/	10 mins	30-35000 pg/mL	under 75years old: < 125 pg/mL over 75 years old: < 450 pg/mL	CE NMPA
	D-Dimer	One-Step	WB:100 µL Plasma:70µL	/	5 mins	0,2-20,0 µg/mL	<0,5 µg/mL	CE NMPA
Inflammation	PCT	One-Step	WB:100 µL Serum/Plasma:70 µL	/	10 mins	0,1-100,0 ng/mL	<0,5 ng/mL	CE NMPA
	CRP	Two-Step	WB/Serum /Plasma:5µL	70 µL	3 mins	0,5-200 µg/mL	hs-CRP <1 µg/mL CRP <10 µg/mL	CE NMPA
	SAA	Two-Step	WB/Serum /Plasma:5 µL	70 µL	3 mins	3-200 µg/mL	<10 µg/mL	CE NMPA
	IL-6	One-Step	WB:100 µL Serum/Plasma:70µL	/	15 mins	5-4000 pg/mL	<7 pg/mL	CE NMPA
Diabetes	HbA1c	Two-Step	WB:5 µL	70 µL	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:70 µL	70 µL	15 mins	5,0-120,0 ng/mL	≥30 ng/mL	CE NMPA
Thyroid Function	T3	Two-Step	WB/Serum /Plasma:70 µL	70 µL	15 mins	0,5-10,0 nmol/L	1,23 nmol/L-3,07 nmol/L	CE NMPA
	T4	Two-Step	WB/Serum /Plasma:70 µL	70 µL	15 mins	12,87-310,0 nmol/L	66-181 nmol/L	CE NMPA
	TSH	One-Step	WB:100 µL Serum/Plasma:70 µL	/	15 mins	0,1-100,0 mIU/L	0,3 mIU/L-4,2 mIU/L	CE NMPA

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



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