Infitek

POCT TESTING

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Dry Immunofluorescence Analyzer

IFA-J1000D

Features

- Single channel POCT detection platform.
- High sensitivity and stability, CV
- Easy operation, automatic discarding
- Easy to connect the hospital LIS and HIS system.
- ED,ICU,NICU,Outpatient service and Clinical Departments

Description

- Dry Immunofluorescence Analyzer is used for in vitro quantitative detection of various indicators in human serum, plasma, whole blood, and urine.It is mainly used to detect the contents of PCT, hs-cTnI, NT-proBNP, H-FABP, CK-MB, MYO, D-Dimer, NGAL, etc., and the results are used for clinical auxiliary diagnosis.

Specification

Model	IFA-J1000D
Detection Time	13~18min
Quality Control	Lyophilized controls with high, medium and low concentration levels
Display	7-inch LCD touch screen
Speed	180 Test/h (take PCT as an example)
Quality Control	Internal quality control calibration
Storage	More than 30,000
Printing	Built-in thermal printer, can be connected to an external printer
Data Transmission	USB, RS232, LIS
Electricity	AC 220V 50/60Hz
External Dimension	291*220*162mm
N.W./G.W.	3.44/4.04kg
Shipping Dimension	295*240*390mm

Measurement items

Biomarkers	Measurable Range	Sample Volume	Clinical Use
Peripheral PCT	0.01-100ng/mL	Peripheral blood 20ul	Diagnosis of infectious diseases and sepsis
PCT	0.01~100ng/mL	Serum / plasma 100μL Whole blood 120μL	Diagnosis of infectious diseases and sepsis
IL-6	2pg~4000pg/mL		Early markers of acute inflammation
CRP	0.1~200mg/L		Auxiliary diagnosis of inflammation
PCT/IL-6	0.01~100ng/mL 2pg~4000pg/mL		Diagnosis of infectious diseases and sepsis
hs-cTnI	0.005~50ng/mL	Serum/plasma 100μL Whole blood 120μL	Gold standard for ACS and AMI diagnosis
NT-proBNP	5pg~35000pg/mL		Diagnosis of heart failure
CK-MB/hs-cTnI/MYO	0.1~100ng/mL 0.005~50ng/mL 1~500ng/mL		Comprehensive solution to myocardial injury
H-FABP	1~200ng/mL		Early diagnosis of myocardial injury
D-Dimer	0.01~10mg/L	Plasma 100μL, Whole blood 120μL	Diagnosis of Deep Vein Thrombosis(DVT) and Pulmonary Embol(PE)
NGAL	1~5000ng/mL	Serum/ plasma 20μL Whole blood 30μL Urine 20μL	Diagnosis of Acute Kidney Injury (AKI) and acute renal failure (ARF)

POCT Immunofluorescence Quantitative Analyzer

IFA-S1000

Application

The product is used cooperatively with special fluoroimmunoassay reagent strips and applicable to fluoroimmunoassay of human body samples. The product can be used for semiquantitative and quantitative immunoassay of medical, antiepidemic and scientific research institutions.

Features

- Ultra-high Sensitivity and excellent precision.
- Real-time data transmission, compatible with LIS/HIS.
- Fast and Flexible, result in short time.
- Store 10,000 results.
- Intelligent QR code management.
- Large touch screen LCD display.

Specification

Model	IFA-S1000
Test Item	The product is used cooperatively with immunofluorescence assay kit produced by our company.
Excitation Light Source	LED
Wavelength Range	740nm
Test Item Parameter	The user can read configuration parameters of the instrument from information card.
Sample Type	Whole blood, serum, plasma, urine and faeces (subject to specification of immunofluorescence assay kit)
Delay Test	Delay test time can be set. Place test card in the instrument and test at fixed time after completion of reaction
Test Speed	240 times/hour
Background Number	Fluorescence value should be ≤5
Repeatability	The variable coefficient of fluorescence value of fluorescence test cards of different intensities repeatedly measured by the instrument CV≤2.0%
Stability	The relative deviation between the test result at 4th hour and the 8th hour after the instrument is working stably and the test result when the instrument just works stably is limited to ±3.0%.
Accuracy	When the instrument tests the calibrated fluorescence test card, the deviation between the measured fluorescence value and the calibration value of the fluorescence test card is ±3.0%.
Measuring Time	The time from inserting the fluorescence test card to displaying the test result should not exceed 15s.
Linearity Range	Within the concentration range of standards no less than two orders of magnitudes, the linearly dependent coefficient of the fluorescence value and concentration read by the instrument r≥0.990
Electricity	AC 100V-240V 50Hz/60Hz; Host: DC12V 5A
Input Power	60 VA
Dimension	200*300*140mm
Net Weight	2.0kg

Menu of assays

Biomarkers	Product Item	Specimen	Reaction Time	Measuring Range
Cardiac	cTnI	WB/Serum/Plasma	12min.	0.1-40ng/mL
	Myo	WB/Serum/Plasma	12min.	5-400ng/mL
	CK-MB	WB/Serum/Plasma	12min.	1-200ng/mL
	NT-proBNP	WB/Serum/Plasma	10min.	20-35000pg/mL
	D-Dimer	WB/Plasma	10min.	40-10000ng/mL
	cTnI+Myo+ CKMB	WB/Serum/Plasma	12min.	Same with single item
	ST2	WB/Serum/Plasma	10min.	10-400ng/mL
	Lp-PLA2	WB/Serum/Plasma	10min.	10-900ng/mL
	H-FABP	WB/Serum/Plasma	10min.	2.5-160ng/mL
	HCY	WB/Serum/Plasma	15min.	1-50μmol/L
Inflammation	CRP/hs-CRP	WB/Serum/Plasma	3min.	0.5-200mg/L
	SAA	WB/Serum	5min.	1-200mg/L
	PCT	WB/Serum/Plasma	10min.	0.2-100ng/mL
	CRP+SAA	WB/Serum/Plasma	5min.	Same with single item
	IL-6	WB/Serum/Plasma	10min.	5-4000pg/mL
	Calprotectin	Fecal specimens	10min.	5-1000mg/g
Thyroid Hormone	TSH	WB/Serum/Plasma	15min.	0.3-100mU/L
	T3	WB/Serum/Plasma	15min.	0.5-10nmol/L
	Tπ4	WB/Serum/Plasma	15min.	5-300nmol/L
	FT3	WB/Serum/Plasma	15min.	1-50pmol/L
	FT4	WB/Serum/Plasma	15min.	5-100pmol/L

Menu of assays

Biomarkers	Product Item	Biomarkers	Product Item	Biomarkers	Product Item
Tumor Maker	AFP	Gastrointestinal	E2	Nutritional metabolism	FERR
	CEA		FOB		VD
	NSE		TRF		VB12
	FOB		FOB+TRF		
	PGIⅡI	Infection	Covid-19	Autoimmune	Total IgE
	PGI		Antigen		
	TPSA		Covid-19		
	FPSA		Ab IgG/IgM		
	CA12-5		FluA Antigen		
	CA15-3		FluB Antigen		
	HE4		HP Antigen		
	CA19-9		HP IgG		
	HCG	Renal Injury	CysC		
	CK19(Cyfra21-1)		NGAL		
Fertility	β-HCG		MAU		
	AMH		RBP-4		
	LH		β2-MG		
	FSH	Diabetes	HbA1c		
	Testosterone		Insulin		
	Progesterone		C-peptide		
	PRL	Brain Diseases	S100β		
	SHBG				

Fluorometer

FLUOM-5B

◆ Fluorometer-binding quantitative kits use fluorescent dyes to selectively bind to specific target molecules.These fluorescent dyes emit fluorescent signals only when the target molecule is bound.Therefore, it is more accurate than the traditional UV absorption method (SP-MUV1000), because the UV absorption method is not selective and measures the absorption value of all substances at 260 - such as DNA, RNA, protein, degrade nucleic acids and free nucleotides or excess salt ions, etc.
◆ In addition, the UV spectrophotometer is not sensitive enough to accurately quantify DNA and RNA at low concentrations (below 2ng/μL), so a highly sensitive fluorometer becomes a better choice. Combined with the corresponding quantitative kit, the FLUOM-5B Fluorometer can quickly, sensitively and accurately determine the concentration of DNA.

Platform Features

◆ The FLUOM-5B benchtop fluorometer is easy to operate, combined with a highly sensitive quantitative analysis kit, to accurately quantify DNA, RNA and protein concentrations. And it is equipped with two channels and has the ability to quickly analyze two fluorescent signals of one sample, which is economical.

Fluorometers are especially suitable for:

◆ Your samples are rare and difficult to process
◆ Based on fluorescence detection technology, it is three orders of magnitude higher than traditional UV spectrophotometry.
◆ The sample will be used for expensive downstream experiments: qPCR, PCR cloning, transfection and next-generation sequencing and other precision assays
◆ Ultra-low concentration samples (10pg/μL dsDNA).

Product characteristics

◆ Simple and intuitive - 7.0 inch color touch screen.
◆ Fast detection - fast and accurate quantification of DNA, RNA and protein in 3 seconds.
◆ High sensitivity - the lowest detection limit can reach 0.5pg/μL double-stranded DNA.
◆ Configure two fluorescence channels: Measure two different fluorescence in one analysis.
◆ Five orders of magnitude response range.
◆ Open system, which can match common reagents on the market.
◆ More than 100,000 sample results can be stored, and can be exported through U disk.
◆ Micro adapter: 0.5ml quantitative PCR centrifuge tube adapter (standard configuration); 0.2ml quantitative PCR centrifuge tube adapter (optional).

Performance index

Subject	Performance parameter
light source	LED
Dynamic range	5 orders of magnitude
Repeatability	<1.5%
stability	<1.5%
Linearity	R2>0.995
Sensitivity	dsDNA:0.5ng/ml
Measuring speed	<3s(Master single test)

Standard configuration: channel

Channel	Excitation wavelength	Emission wavelength
Blue	470nm	525nm
RED	625nm	690nm

Optional channel

Channel	Excitation wavelength	Emission wavelength
UV	365nm	460nm
GREEN	525nm	620nm

Commonly used fluorescent reagents corresponding to different fluorescent channels and their applications

Excitation wavelength	Common fluorescent reagents	Application
365	Hoechst33258, 4-MU,EnZCheK Caspase	Plant GUS reporter gene assay, cell apoptosis assay
470	PicoGreen®, oligreen， RiboGreen®, GFP, Protein, Fluorescein, Quant-iT™	dsDNA, ssDNA quantification, green fluorescent protein GFP, fluorescein detection, protein quantification
525	Rhodamine, Cy3, RFP Vybrant Cytotoxicity	Rhodamine detection, Cy-3 fluorescent label detection, red fluorescent protein RFP gene detection, cell activity toxicity detection
625	Cy5, Quant-iT RNA	Cy-5 fluorescent labeling detection, RNA quantification

Fluorometer

FLUOM-100

Description

This fluorometer is based on fluorescence immunoassay technology and the principle that the fluorescence intensity is proportional to the concentration at low concentrations, and to analyze samples qualitatively and quantitatively by detecting fluorescence intensity.

Application

Fluorescent Immunoassay technology has strong specificity, high sensitivity and good practicability, which is widely used to measure nucleic acids (dsDNA, Oligo, RNA), proteins (enzymes, receptors, antibodies), hormones, drugs and microorganisms and other low concentration bioactive compounds.

Features

- ◆ It works for most reagents.
- ◆ 7-inch color touch screen, easy to operate.
- ◆ Only 3s to detect the sample concentration.
- ◆ The minimum detection concentration can be 0.5pg/μL.
- ◆ Dual channels for detecting two kinds of fluorescence simultaneously.
- ◆ The response range can reach 5 orders of magnitude.
- ◆ Store up to 10000 pieces of data, which can be exported through U disk or printer

Specification

Model	FLUOM-100
Sample Capacity	1
Sample Volume	1-20μL
Tube Type	0.5ml PCR tube
Channel Number	2
Measurement Time	3s
Repeatability	＜1.5%
Calibration Method	2 or 3 point calibration
Response Range	Five orders of magnitude
Linearity	R2 ≥ 0.995
Excitation Wavelength	470/625 (standard), 365/525 (optional)
Emission Wavelength	525/690(standard), 460/620 (optional)
Concentration Range	dsDNA HS: 0.005ng/μL~120ng/μL,
	dsDNA BR: 0.2ng/μL~2000ng/μL,
	Oligo: 0.01ng/μL~240ng/μL,
	RNA: 0.2ng/μL~200ng/μL,
	MicroRNA: 0.025ng/μL~150ng/μL,
	Protein: 12.5μg/mL~5mg/mL
	Protein BR: 0.1mg/mL~20mg/mL
Sensitivity	0.5pg/μL dsDNA
Light Source	Monochrome LED
Detector	Photodiode
Display	Touch screen display
Programs Stored	10000
Data Export	U Disk
Data Format	CSV PDF
Data Interface	USB (Type A)*2, USB (Type B)*1
Power Adapter	100-240V@50-60Hz
Voltage	DC12V 2A
Power	4.5W
Net Weight	1kg