

PRECISION DIAGNOSIS

INTELLIGENCE EFFICIENCY



iRaTe[®]
300/1600

**SINGLE-/MULTI-CHANNEL IMMUNOFLUORESCENCE
QUANTITATIVE ANALYZER**

AC aucheer 奥丞

INTERNATIONAL MAINSTREAM PLATFORM OF IMMUNOFLUORESCENCE

DETECTION PRINCIPLE

The immunofluorescence quantitative detection system converts fluorescence into an electric signal through excitation and calculates analyte content by the intensity of the electric signal. It is available for detecting single or multiple biomarkers at the same time with pg/mL sensitivity. It offers fast and accurate detection for medical institutions

iRaTe® 300 STRENGTHS OF SINGLE-CHANNEL IMMUNOFLUORESCENCE QUANTITATIVE ANALYZER

- Portability—iRaTe 300 single-channel dry-type immunofluorescence analyzer is compact and thus applies to bedside diagnosis, small labs and community-based hospitals
- Stability—stable performance, and the system CV is less than 2%
- Simplicity—easy touch screen interface with testing results printed in real time
- Comprehensiveness—diversity of samples, conventional and featured programs combined

iRaTe® 1600 STRENGTHS OF MULTI-CHANNEL IMMUNOFLUORESCENCE QUANTITATIVE ANALYZER

- Flux—iRaTe 1600 semi-auto dry-type immunofluorescence analyzer with a maximum testing velocity of 100T/H automates card loading, detection, card unloading and result uploading, and allows multi-program testing at the same time. It's arranged with a temperature control feature and requires no manual timing and waiting, which applies to tier 2/3 hospitals
- Stability—stable performance, and the system CV is less than 2%
- Simplicity—easy touch screen interface with testing results printed in real time
- Comprehensiveness—single-/multi-channel option, diversity of samples, conventional and featured programs combined

iRaTe[®] 300 SINGLE-CHANNEL IMMUNOFLUORESCENCE QUANTITATIVE ANALYZER



PRODUCT FEATURES

Quick detection

- First results delivered within 12min
- Single channel, available for external incubation, continuous sampling and detection
- Load-and-test, no wait

Flexibility and convenience

- Random/emergency mode
- Automated card loading and detection
- External incubation with temperature control, and multi-program testing at the same time

Intelligent system

- Two-way LIS connection facilitates management of sample detection
- 7-inch touch screen operation
- Internal quality control and calibration

Superb performance

- Precision $\leq 3\%$
- Sensitivity can reach pg/mL
- SNR: 0.01% (1:10000)

iRaTe[®] 1600 MULTI-CHANNEL IMMUNOFLUORESCENCE QUANTITATIVE ANALYZER



PRODUCT FEATURES

Quick detection

- First results delivered within 12min
- 16 channels for continuous sampling
- Maximum testing flux of 100T/h

Flexibility and convenience

- Batch/random/emergency mode
- Automated card loading, detection and card unloading
- Incubation with temperature control, and multi-program testing at the same time

Intelligent system

- Two-way LIS connection facilitates management of sample detection
- Touch screen operation for quick setting
- Internal quality control and calibration

Superb performance

- Precision $\leq 3\%$
- Sensitivity can reach pg/mL
- SNR: 0.01% (1:10000)

iRaTe® 300/1600

IMMUNOFLUORESCENCE PRODUCT ITEM

Product name	Detect disease	Measuring Range	Sample Material
PLGF	Preeclampsia, Premature birth	10~5000pg/mL	Serum, Plasma
AMH	Ovarian Function	0.08~20ng/mL	Serum, Plasma
FA	Anemia	0.8~60ng/mL	Serum or Plasma
Fer	Anemia	5~800ng/mL	Serum, Plasma
25-OH-D	Bone Metabolism	6~100ng/mL	Serum or Plasma
25-OH-D ₃	Bone Metabolism	6~100ng/mL	Serum or Plasma
hs-cTnI	Cardiovascular system	0.04~80ng/mL	Serum, Plasma
NT-proBNP	Cardiovascular system	25~35000pg/mL	Serum, Plasma
Lp-PLA2	Cardiovascular system	3.5~31200ng/mL	Serum, Plasma
MPO	Cardiovascular system	20~1000ng/mL	Serum, Plasma
NGAL	Kidney Injury	30~1500ng/mL	Urine
PCT	Inflammation & Infection	0.1~100ng/mL	Serum, Plasma
IL-6	Inflammation & Infection	2~1500pg/mL	Serum, Plasma
SAA/CRP	Inflammation & Infection	SAA: 3.5~150mg/L CRP: 0.3~150mg/L	Serum, Plasma

OPERATION OF iRaTe® 300 SINGLE-CHANNEL IMMUNOFLUORESCENCE QUANTITATIVE ANALYZER



OPERATION OF iRaTe® 1600 MULTI-CHANNEL IMMUNOFLUORESCENCE QUANTITATIVE ANALYZER



iRaTe[®] 300 KEY SYSTEM PARAMETERS

Detection principle

- Time-resolved immunofluorescence

Key performance parameters

- 24h standby with samples tested in real time
- Time of first results delivered: 12min
- Display: 7-inch color LCD touch screen
- Repetition CV \leq 10%
- Linearity: $r \geq 0.99$

Analyzer specification

- Length/width/height:260×322×136mm
- Weight:2.5kg

Operation mode

- Random/batch/emergency

Network security

- Running environment: winCE system
- Data and device interface:
analyzer with three modes of data reading
 - 1.Print results in real time
 - 2.Save history interface
 - 3.Connect to end-point LIS via R232COM serial port and Ethernet port

Maintenance

- Ultra-low breakdown rate
- Easy daily maintenance

iRaTe[®] 1600 KEY SYSTEM PARAMETERS

Detection principle

- Time-resolved immunofluorescence

Key performance parameters

- Maximum testing velocity: 100T/h
- 24h standby with samples tested in real time
- Time of first results delivered: 12min
- Display: 10.4-inch color LCD touch screen
- Repetition CV \leq 10%
- Linearity: $r \geq 0.99$

Analyzer specification

- Length/width/height:630×595×410mm
- Weight:20kg

Operation mode

- Random/batch/emergency

Network security

- Running environment: winCE system
- Data and device interface: analyzer with three modes of data reading
 - 1.Print results in real time
 - 2.Save history interface
 - 3.Connect to end-point LIS via R232COM serial port and Ethernet port

Maintenance

- Ultra-low breakdown rate
- Easy daily maintenance



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