

Fully Automatic Clinical Chemistry Analyzer

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ZY-260



ZY- 260

Fully Automatic Clinical Chemistry Analyzer



*One of the drafters of Pharmaceutical Industrial Standard of the People's Republic of China YY/ T0654—2017 Automatic Biochemical Analyzer



Automatic Cleaning System

- Stepwise thorough cuvette cleaning by warm water, with guarantee on temperature stability of cuvettes
- Independent stirring, utmost polishing, auto washing in three-dimensional vortex
- With KHB special detergent to lower maintenance cost
- Cross-contamination rate lower than 0.08%



Accurate Optics and Reaction Systems

- Halogen lamp for automatic sleep/wakeup, long-lasting service life
- Advanced multi-channel microcurrent information processing technology for real-time single/dual wavelength tests
- Outstanding absorbance linearity range that stands the test of the market and bears higher resolution
- Liquid-gas synchronous constant temperature device that secures an actual temperature of $37 \pm 0.1^\circ\text{C}$
- Real-time temperature display and out-of-limit warning



Sound Supporting Systems

- One of the drafters of an industrial standard
- Integrate R&D, manufacturing, sales and after-sales services
- Provide a full range of AAA systems with self-manufactured reagents, calibrators, and quality controllers
- Matched with more than 70 types of self-manufactured reagents
- CNAS-certified standard laboratory with qualified result of IFCC-RELA



Smart Filling System (sample/Reagent Probes)

- Level sensing, volume tracking
- Anti-blockage function (optional) and anti-collision protection
- Clot monitoring and warning function (optional)



Outstanding Performance

- Continuous operation for 24 hours, automatic sleep and wakeup
- Conventional samples can be elevated to emergency samples with priority 13 optional preset report forms; user-defined report available
- Connected to LIS/HIS via data port and network protocol port
- Duplex communication
- Provide user with permission management, protect data securing



Ultra-large Sampling System (sample/Reagent Trays)

- Priority of emergency samples function and automatic sample dilution and retest function
- Mixed placement of multiple types of samples
- Noiseless, compact and maintenance-free reagent tray based on semiconductor refrigeration technology
- Real-time reagent residue monitoring and residue tests display
- Special design of bottle bottom for saving reagent in all respects

ZY-260 Fully Automatic Clinical Chemistry Analyzer Parameter Specification

Performance

Throughput	Biochemical constant test speed: 200 tests/hour
System functions	Continuous standby for 24 hours, emergency test, automatic dilution, automatic retest, automatic sleep and wakeup Single/dual reagent (s) and wavelength (s) settings, 1 ~ 15 min response time
Type of sample	For whole blood test, serum test, plasma test, urine test, among others, please see Instructions for Use
Analytical method	One-point endpoint method, dual-point endpoint method, reaction speed method (kinetic method), two-point speed method (fixed time method) and potential survey method for ISE test
Calibration method	Linear calibration: factor K method, linear method (including two-point linear and multi-point linear methods) Non-linear calibration: spline method, broken line method, exponential method, logarithmic method, 3P parameter method, 4P parameter method and 5P parameter method

Sample System

Sample tray	54 sample positions available for mixed placement of miscellaneous samples and bar code scanning (optional)
Sample volume	2.5 ~ 70μL, progressively increase by 0.1μL
Sample probe	Liquid level detection, volume tracking, automatic anti-collision protection, probe blockage detection (optional), etc. Inner and outer wall cleaning technology, automatic maintenance and cleaning, with a cross-contamination rate of lower than 0.08%
Sample tube	A variety of specifications for micro sample cup and sample tubes available on market

Reagent System

Reagent tray	72 reagent positions, 36 positions on both inner and outer rings respectively, available for 72 reagent bottles with volume of 20mL and 35mL. Scalable bottle volume, allow bar code scanning (optional) Cleaning solution settable at any position
Reagent volume	20 ~ 350μL, progressively increase by 0.5μL
Reagent probe	Liquid level detection, volume tracking, automatic anti-collision protection Inner and outer wall cleaning technology, automatic maintenance and cleaning, with a cross-contamination rate of lower than 0.08%
Temperature for refrigeration of reagent	Continuous refrigeration for 24 hours at 2 ~ 8 °C

Reaction System

Reaction tray	Tray design, with 80 cuvettes
Cuvette	Semi-permanent organic glass (plastic) with optical path of 6mm
Reaction solution volume	120 ~ 500μL
Constant temperature system	electrical heating constant temperature system
Temperature of reaction tray	37 °C, real-time display of temperature
Temperature fluctuation of reaction tray	±0.1 °C
Stirring mechanism	Independent stirrer

Optical System

Light source	Halogen lamp, available for automatic sleep and wakeup
Spectrophotometry	Concave grating photometry, post- spectroscopic technology
Wavelength	12 wavelengths: 340,380,405,450,505,546,578,600,660,700,750,800
Wavelength precision	< ±1nm
Absorbance range	-0.5 ~ 3.3 Abs

Working Conditions

Power supply	230V±23, 50/60Hz
Power	900VA (UPS 1500VA power supply is optional)
Water consumption	Less than 7 L/H deionized water
Dimensions	890mm (length) X725mm (width) X 550mm (height)
Weight	100kg

Clinical Chemistry Reagents Test Menu



Liver Function

- ALT
- AST
- ALP
- TP
- ALB
- PA
- TBA
- γ -GT
- TB
- DB
- CHE
- AFU
- GPDA
- ADA
- 5'-NT
- CG
- m-AST
- CIV*
- LAP*
- MAO*
- AMM*
- GR*



Renal Function

- CRE
- UREA
- UA
- UMA
- Cys-C
- RBP
- NAG
- NGAL
- β 2-MG
- α 1-MG
- CSF*
- LCA*
- LCK*



Blood Lipid

- TC
- TG
- HDL-C
- LDL-C
- ApoA1
- ApoB
- Lp (a)
- ApoE
- sd-LDL-C
- Lp-PLA2
- MPO*
- PLIP*



Specific Protein

- IgA
- IgM
- IgG
- C3
- C4
- CRP
- hs-CRP
- WCRP
- RF
- ASO
- anti-CCP
- SAA
- PCT*
- MMP-3*
- Clq*
- SOD*



Myocardium

- LDH
- CK
- CK-MB
- α -HBDH
- HCY
- IMA
- ACE
- MYO
- H-FABP
- CTnI*
- LDH1*



Pancreas

- α -AMY
- LPS
- PAMY



Electrolytes

- Ca
- Mg
- IP
- CO₂
- K
- Na
- Cl
- Fe*
- Zn*



Glycometabolism

- GLU
- HbA1c
- D3H
- NEFA
- GA
- INS*
- GSP*
- LAC*



Tumor Marker

- SA
- PGI
- PGII
- Fer*
- SGF*



Others

- D-Dimer
- TRF
- FDP*
- Fbg*

*Coming soon

KHB
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