# Technical Specifications

#### Performance

Type Discrete Automatic, Random Access Principle Absorption Spectrometry, Turbidimetry Constant 200tests/hour (without ISE) Throughput

Test Method End-point, Fixed-time, kinetic Test Sequence Run tests in strict accordance with

> sample sequence, Insert emergency at any time

### **Optical System**

Method

Light Source Halogen-tungsten lamp, 12V/20W More than 2000hrs service time After spectrometric method Spectrometric

> 8 wavelengths, selectable among 340-800nm

Wavelength Photodiode array Absorption Range 0-4 0Abs

Optical System Integrated full closed optical system

### Reaction System

Reaction tray 81 positions Reaction volume Mini 150µ

#### Sample System

Sample tray 30/60 positions available Sample volume 2-100µl, 0.1µl by step

Online sample 60 samples/ batch, unlimited batch input

### Reagent System

Reaction tray 60 positions, open system Reagent volume 20-500 µl, 1µl by step Reagent bottle Bottles with 15ml and 30ml are

available, dead volume < 0.5ml

### Temperature Control System

Heating mode Solid constant temperature closed

direct heating

Heating time Less than 3minutes

Reaction temperatu 37±0.2°C Temperature fluctuation ± 0.1°C

Refrigeration system 24 hours cooling for reagent tray,

temperature 4-12°C

### Calibration and QC

Calibration mode Linear, Logit-4p, Logit-5p, Spline, Factor,

Polynomial

Automatically check calibration curve and fitting the best calibration curve

QC type Multi-type

QC rules Multi-rule; default: Westguard

Status monitoring Real -time monitor the sample tray,

> reagent tray, reaction tray; Real-time display reaction tray humidity, reagent remain, reaction curve, calibration curve

and QC chart.

Inspection & judgment Reaction end point judgment, reaction

> linear range judgment, depletion judgment, reagent blank

absorbance judgment

#### Operation and Print

Windows XP or Windows 7 Home Operation system

SQL Server Database

Data storage Automatic storage and backup, perma-

nently preserve all kinds of data

Print content Print content can be customized Print format Provide a variety of print format

### Working Conditions

Less than 5L/hour Water consumption AC 220 ±22V 50HZ ±1HZ Power supply

Max 200VA Power 15°C-30°C Ambient temperature 79x59x108cm Dimension(L\*W\*H) Net Weight 90KGS

# Profession & Care



ISO9001 ISO13485



- Good economic choice to replace semi-auto
- 200tests /hour Auto washing

81 reaction positions

- 60 reagent positions
- Bench-top available
- 24hours refrigeration
- 30/60 sample positions available

FBA-200

Fully-auto Biochemistry Analyzer

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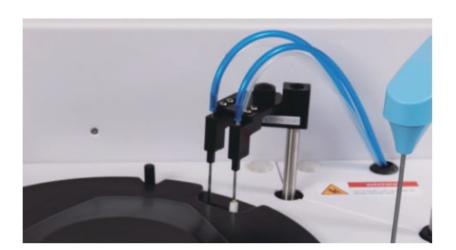
PRIMAN

# FBA-200 Fully-auto Biochemistry Analyzer



- Random access, discrete automatic biochemistry analyzer, Insert emergency at any time
- High performance and reasonable price, It is the good economic choice from semi-auto upgraded to fully-auto analyzer
- Probe cleaning: Automatic washing for both interior and exterior
- Probe performance: Liquid level detection, all-round anti-collision protection and inventory checking, have automatic stop and alarm prompt for an obstacle
- Separate mixer, Auto washing, 24hours refrigeration system

# Analysis System



- Constant 200 tests/hour, up to 320 tests/hour
- Test method: End-point, Fixed-time (two point method), kinetic
- Reaction tray: 81 UV cuvettes
- Mini reaction volume: 150µl, save reagent cost
- Insert emergency at any time
- Support linear and non-linear calibration
- Heating method: solid constant temperature closed direct heating
- Temperature equilibrium time: less than 3minutes,
- Reaction Temperature: 37±0.2°C
- Temperature Fluctuation: ± 0.1°C

### Optical System



- Integrated full closed optical system, after spectrometric method, no mechanical parts, not moldy, no maintenance cost 8 wavelengths, selectable among 340-800nm
- Absorption range: 0.00-4.00Abs
- Halogen-tungsten lamp has more than 2000hrs service time
- Center wavelength deviation: ±2nm, half wave width less than
- Stray light less than 0.3%
- Resolution: 0.0001Abs

## Sample adding and rinsing system



- Sample volume: 2- 100μl, 0.1μl by step
- Reagent volume: 20-500μl, 1μl by step
- Water consumption: less than 5L/hour

### Mixing and washing system

- Mixing system: separate mixer, to mix the sample and reagent completely, for better reaction effect
- Washing system: single needle to wash cuvettes one by one automatically



Bench-top available, compact size

### Reagent/Sample Tray



- 60 reagent + 30/60 sample positions available
- Advanced reagent tray refrigeration system, temperature: 4-12°C
- Automatically detect reagent remain, real time display reagent
- Reagent bottles with 15ml and 30ml are available, dead volume <</p>
- Support single/ dual reagents, reagents are open
- Real time display reagent tray status
- Automatically judge substrate depletion and automatically dilute and

### Operation System

- Windows XP or Windows 7 Home, easy to operate
- Set the operating authority, no time limit and storage limit,
- Permanently preserve all kinds of data
- Automatic storage, automatic backup,
- English print report, the user can modify the print format
- English online help and operation guide
- The test parameter setting is completely open
- The unique user password management, reasonable distribute the operating authority
- Real-time display the status of sample testing, reagent remain, reaction tray and reaction curve recording
- Real-time understand the testing progress
- Automatically check calibration curve and fitting the best calibration
- Ocalibration Mode: Linear, Logit-4p, Logit-5p, Spline, Factor, Polyno-
- The computing items can be set randomly, automatically judge substrate depletion, automatically retest
- Real-time display the reaction tray temperature
- RS232 standard interface, support the intranet and remote printing

