

Biossays BC1200

Automatic Biochemistry System



Outstanding Technology Power of Biochemistry



Your Final Diagnostic Solution

Biossays BC1200 automatic biochemistry system designed with such highly customized options and outstanding performance can always provide a final solution to customers.

Biossays BC1200 analyzer consolidates both biochemistry and electrolyte testing on a single system, with the throughput of 600 T/H (Photometric), 600 T/H (ISE Module) respectively, together with assorted reagents, can help the operator to get accurate and reliable results more efficiently.



Advantages of Biossays BC1200

Automatic Biochemistry System

■ Sample Handling

- Micropipette technology, the minimum sample volume can be 2.0 μ L
- Batch, Random access, STAT track

■ Reagent Handling

- R1 & R2 two-reagent tray, each trays has 45 reagent positions, temperature 5 $^{\circ}$ C -15 $^{\circ}$ C , with reagent barcode reader
- Reagent inventory real-time detection, display the remaining number of tests

■ Photometry System

- Holographic concavity flat field grating, rear spectroscopy technology
- Wavelength range: 340-800 nm, simultaneous detection on the 16 wavelengths, comprehensive coverage of all biochemical reagent testing requirements
- Stable optional path detection system, wide absorbance linear range, high resolution ratio

■ Constant Temperature System

- Constant temperature water bath system, best temperature stability
- Real-time temperature monitoring, displaying and alerting function

■ Operating System

- Full monitoring, flexibility and convenience
- Bidirectional, serial communication or network communication using ASTM.

Biossays BC1200



Reaction Handling

- 120 reaction cuvettes
- 150 μL minimum reaction volume
- High performance optical plastic



Stirrer

- Wash with pre-heated pure water before mixing
- 1400 rpm high speed flat stirrer needle
- Simple structure for maintenance



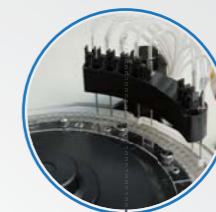
Reagent Handling

- Total 90 reagent positions
- Continuously loading during measurement
- 5 $^{\circ}\text{C}$ ~ 15 $^{\circ}\text{C}$ constant cooling



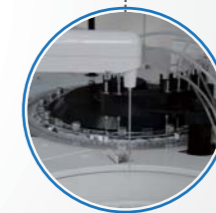
Reagent Probe

- 20 μL -350 μL reagent volume with stepping 1 μL
- Liquid level detection
- Crush-proof and self-recovery function
- Simple structure for maintenance



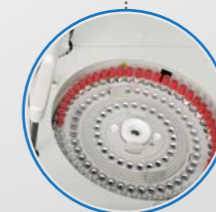
10-step Cuvette Washer Station

- Wash with pre-heated pure water and automatic-diluted detergent.
- Automated cuvette wash & cell blank check



Sample Probe

- 2.0 μL -35.0 μL sample volume with stepping 0.1 μL
- Liquid level detection and clot detection
- Crush-proof and self-recovery function
- Highly polished to prevent cross-contamination
- Simple structure for maintenance



Sample Handling

- Intelligent sample recognition system, including RFID & barcode

Operation Software



Comprehensive Software

- User-friendly Interface
- Real-time status monitoring for each test
- Monitoring reagent and consumable status
- Intelligent alarm function



Maintenance Guide

- Ensure performance reliability and reduce unnecessary service calls
- Simple structure easy to maintain



Quality Control

- Westgard rules and Levey-Jennings chart for both internal and external quality control



Test Summary Function

- Test summary including system test, calibration, QC, statistics of samples, valid tests and retests
- Search and review test information conveniently
- Calibration history review and restore



Accurate Pre-dilution

- Pre-dilution function



Connect to LIS (bidirection)

- Bidirection, serial communication or network communication using ASTM

Test Menu



Cardiac

CK
CK-MB
 α -HBDH
LDH
*LDH1



Inorganic Ion

Fe (Iron)
Ca
P (phos)
*Mg



Pancreatic

α -AMY
*LIP



Lipids

HDL-C
LDL-C
TC
TG
ApoE
Lp(a)
Hcy
ApoA1
ApoB



Hepatic

TBA
ALT (SGPT)
AST (SGOT)
ALP
GGT
TBIL
DBIL
TP
ALB
*Ammonia
*PA (Prealbumin)
*CHE
*AFU
*5'-NT



Diabetes

GLU
LAC
*HbA1c
*GSP
*D3-HB



Renal

Cr (CREA)
Uric Acid
Urea
*Cysc
*mALB
* α 1-MG
* β 2-MG
*Urine/CSF Protein
*RBP



Special Protein

IgA
IgM
IgG
Transferrin
*ASO
*RF
*CRP (Full Range)
*UIBC
*Urine/CSF Protein
*G6PD
*C3
*C4
*ACP
*Haptoglobin



ISE

Na
K
Cl
Ca
pH

* Available soon

Biossays BC1200

Automatic Biochemistry Analyzer

Technical Specifications

Type of system	Automated discrete, STAT priority
Throughput	600 T/H (Photometric), 600 T/H (ISE Module)
Measuring principle	Endpoint, rate, fixed-time, kinetic, ion-selective electrode technology
Calibration method	1-point linear method, 2-point linear method, multipoint linear method, non-linear method
Sample handling	115 sample positions, continuous loading, support standard cup & polytype tubes
Reagent handling	2 trays, 90 positions, 5°C~15°C constant cooling, continuous loading
Sample volume	2.0 µL - 35.0 µL, 0.1 µL stepping
Reagent volume	20 µL - 350 µL, 1 µL stepping
Reaction volume	150µL ~ 450µL
Reaction cuvette	120 cuvettes of optical plastics, optical diameter is 6mm
Reaction temperature	37.0°C ± 0.3°C, fluctuations not greater than ±0.2°C
Light source	20W/12V Halogen lamp, lifespan up to 2000 hours
Photometer	Holographic Concavity flat field grating, rear spectroscopy technology
Absorbance range	0 ABS - 3.0 ABS
Wavelength	16 wavelengths 340 nm, 380 nm, 405 nm, 450 nm, 480nm, 505 nm, 546 nm, 570 nm, 600 nm, 630 nm, 660 nm, 700 nm, 720 nm, 750 nm, 780 nm, 800 nm
Dispensing system	Independent sample and reagent probes with liquid level detection, clot detection
Mixing system	2 independent paddle stirrers, polished with teflon which ensure excellent reaction conditions
Washing station	Reaction cuvette: 10-step auto-washing Dispensing probe: high-pressure rinsing internally, stream washing for external Mixing bar: stereoscopic vortex priming
Water consumption	Deionized water: 12 liters/hour (single reagent), 16 liters/hour (double reagents)
Dilution	Auto-dilution, retest
Software function	English operation software monitoring the entire process, a variety of user modes available
Power supply	100-240 Vac, 50/60 Hz
Power	1400 VA
Operating temperature	10°C - 30°C
Dimensions	122 cm X 80 cm X115 cm
Weight	270 kg



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