



Automatic Biochemistry Analyzer

Fast, Accurate, and Easy-to-Use Point-of-Care Testing (POCT) Solution

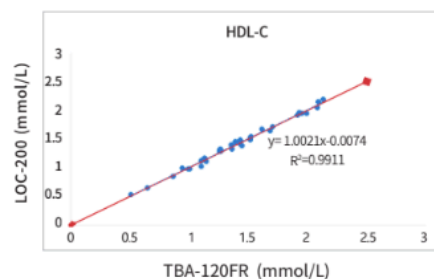
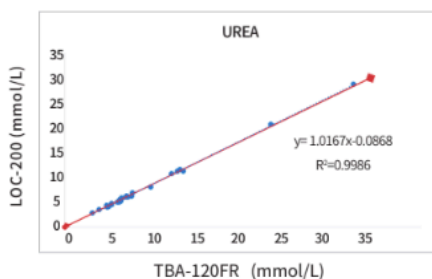
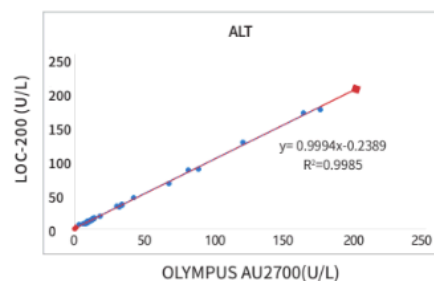
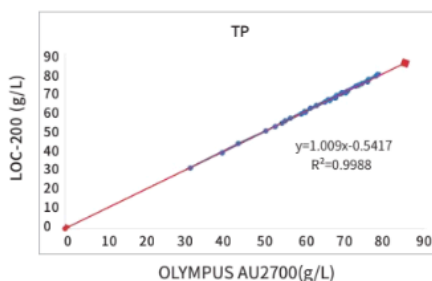


Overview

The LOC-200 is a fully automatic, microfluidics-based biochemistry analyzer designed for rapid, on-the-spot diagnostics. With built-in centrifugation, mixing, and analysis, this compact POCT solution simplifies clinical workflows and delivers multi-parameter results in just 8–12 minutes.

- **3-Step Operation:** Add sample → Insert disc → Read results
- **Sample Type:** Lithium-heparinized whole blood, plasma, or serum
- **Sample Volume:** 90–120 μL
- **Time to Results:** 8–12 minutes
- **Parameters:** Up to 35 tests per disc
- **Technology:** Absorption spectrophotometry with xenon lamp

Reagent analysis performance

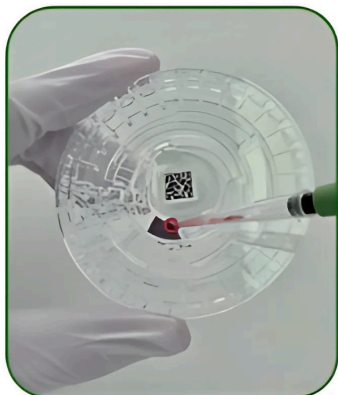




Features

- Easy 3-step operation – no scanning or pre-preparation
- Microfluidic technology with built-in centrifuge
- Lyophilized reagent discs with 2-year shelf life
- Covers 8 test panels and 35 biochemical parameters
- Maintenance-free light source and compact design
- No cross-contamination – individual channels per test
- Built-in real-time IQC system for accurate results
- Automatic reagent calibration – no manual intervention
- Stable data transfer to HIS/LIS system
- Built-in diluent – no need to add separately

Automatic Biochemistry Analyzer LOC-200 3-Steps Easy Operation



Application Scenarios

- Emergency departments
- Pediatrics
- Ambulances
- Fever clinics
- Elderly care centers
- Community hospitals
- Public health screenings
- Rural or primary medical centers



Microfluidic Technology

Based on microfluidic technology, lyophilized reagent beads and diluent are pre-installed in the disc. The centrifugal and capillary force of the disc control the fluid in the micro-channel network, and the disc can automatically complete the centrifugation, mixing, reaction

and analysis processes. Multi-parameter testing can be performed at the same time, improving work efficiency and reducing consumable costs.



- ◆ Multi-parameter tests on single sample, 8 different panels covers 35 parameters.
- ◆ Individual channel design in panel to avoid cross contamination.
- ◆ Unique lyophilization process, the shelf life of reagent beads is up to 2 years.

Disposable Reagent Discs

8 different Panels with 35 parameters, 12 Minutes to Result. Easy Operation

Based on Micro-fluidic technology, LOCMEDT reagent discs are designed to perform all the steps required to convert 3 drops of blood sample to several accurate results.



General Chemistry I Lyophilized Kit 18

TP	ALB	TBIL	ALT	AST	GGT	ALP	GLU
CHOL	TG	HDL-C	HCY	CRE	UA	UREA	
GLOB*	LDL-C*	A/G*					



General Chemistry II Lyophilized Kit 18

TP	ALB	TBIL	ALT	AST	GGT	ALP	GLU	AMY
CHOL	TG	HDL-C	CRE	UA	UREA	GLOB*	LDL-C*	
A/G*								



General Chemistry III Lyophilized Kit 1

ALB	TBIL	DBIL	ALT	AST	GLU	FRUC	AMY
CHOL	TG	HDL-C	CRE	UREA	LDL-C*	IBIL*	



Clinical Emergency Lyophilized Kit 15

AST	GLU	AMY	K*	Na*	Cl*	CO ₂	CRE	UA
UREA	CK	CK-MB	LDH	α-HBDH	AG*			



Liver Function Lyophilized Kit 14

TP	ALB	TBIL	DBIL	ALT	AST	GGT	ALP
CHE	GLU	AMY	GLOB*	A/G*	IBIL*		



Electrolyte & Renal Function Lyophilized Kit 11

K*	Na*	Cl*	Ca	Mg ²⁺	P	CO ₂	CRE	UA	UREA
AG*									



Renal Function Glucose and Lipid Lyophilized Kit 10

GLU	FRUC	CHOL	TG	HDL-C	HCY	CRE	UA
UREA	LDL-C*						

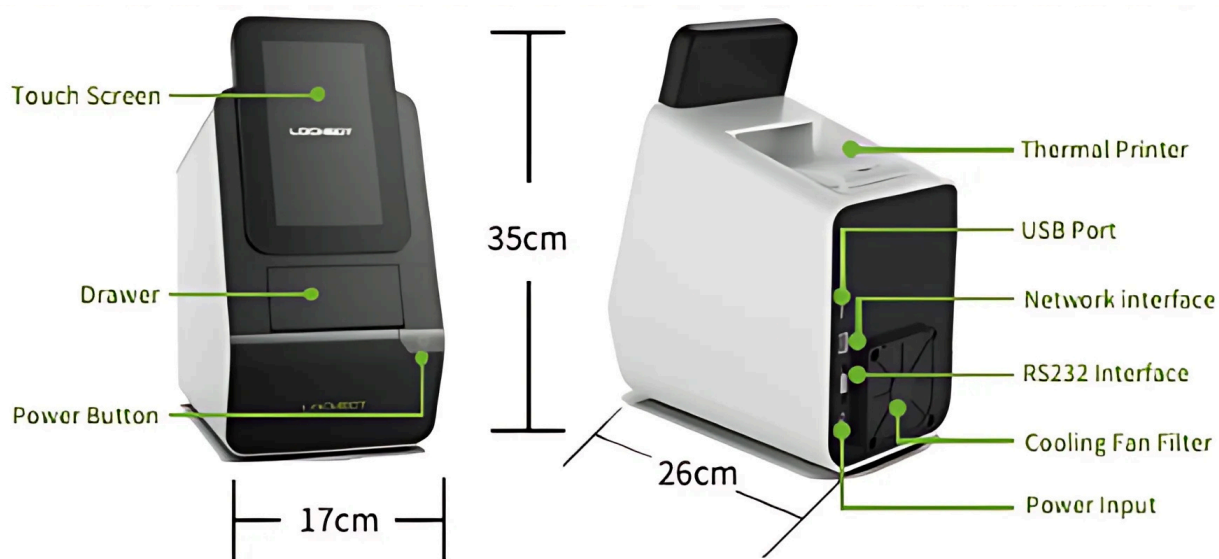


Myocardial Enzyme and Lipid Lyophilized Kit 10

AST	CHOL	TG	HDL-C	HCY	CK	CK-MB	LDH	α-HBDH
LDL-C*								



Technical Specifications



Analyzer model LOC-200

Sample Type	Lithium-heparinized whole blood, lithium-heparinized plasma or serum
Sample Volume	90-120 μ l
Testing Time	8-12 mins
Testing Principle	Absorption Spectrophotometry
Analytical method	End point method, rate method, two-point method
Light Source	Xenon flash lamp, up to 10° exposures (lifetime-free replacement)
Temperature	37 \pm 0.2°C
Precision	0.001Abs
Absorbance linear range	0-3.5Abs
Cross-contamination	0
QC&Calibrate	Automatic and Real-time
Working Condition	Temperature: 10-30°C Humidity: 40%-85%
Supply	Input: AC110-240V, 50-60Hz
Power Rating	120W
Optical System	After the filter spectral, 9 wavelengths synchronous detection: 340, 450, 405, 505, 546, 600, 630, 700, 800(unit: nm)
Display	7-inch LCD 1024*600, multi-point capacitive touch screen, Multi-language



Specifications



Easy operation

- ◆ No need to scan the QR code.
- ◆ Built-in centrifuge, no sample preparation.
- ◆ Only 3 steps to get the result.



Little maintenance

- ◆ Using high-performance optical components, the light source is maintenance-free for life.
- ◆ No consumable accessories inside.



Space Saving

- ◆ Small size and bench top design, weight only 4.5kg.
- ◆ Easy to carry and operate.



Multiple quality control, Accurate calibration

- ◆ **Primary quality control**
Built-in real-time automatic quality control system (IQC), monitoring the entire process to ensure the normal operation of the analyzer.
- ◆ **Secondary quality control**
The reagent calibration is automatically completed by the analyzer in real-time.
- ◆ **Tertiary quality control**
IQC system monitors the entire reaction process to ensure accurate and reliable results.

GENERAL



Storage	Max 500,000 results
Printer	Built-in thermal printer
Data Transmission	USB,WIFI, RS232 serial port
Weight	4.5KG
Size	256mm(L)*172mm(W)*350mm(H)

