

LOCMEDT



LOC-200

Automatic Biochemistry Analyzer





COMPANY PROFILE

LOCMEDT is committed to providing high-quality in vitro diagnostic equipment to the global market. Based on the microfluidic technology, we design, develop and manufacture POCT fully automatic biochemistry analyzers for a range of hospitals, research laboratories, biopharmaceutical companies and veterinary clinics, providing high-quality and reliable products, solutions and services for the human medical and veterinary diagnostic market.

LOCMEDT has 1,200 square meters of office and production space, of which 350 square meters are medical-grade GMP purification plants. The annual production capacity is 5,000 instruments and 5 million kits. It has gathered outstanding professionals from the fields of biomedicine, chemistry, microfluidics, mechanical technology and other fields. In 2018, LOCMEDT was certified as National Science and Technology Enterprise and Tianjin Young Eagle Industry.

In 2019, LOCMEDT won the second prize in the 8th National Innovation and Entrepreneurship Competition and was shortlisted for the national finals. In 2020, LOCMEDT was recognized as a key supported "project + team" by Tianjin and obtained the National High-tech Enterprise Certification.

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Micro-Sample Size!

Only 100µL (about 3 drops) Lithium heparinized whole blood, plasma or serum.



Quick Test

3-steps easy operation, get result in 8-12 minutes.



All-in-one Device

Combining biochemistry, electrolyte analysis, test up to 35 parameters.



Fully Automatic

Randox traceability system, factory calibrated, 24-hour online calibration.



Built-in Diluent

Built-in diluent module and QR code information identification, no need to manually add diluent and scan the code.



Accurate & Reliable result

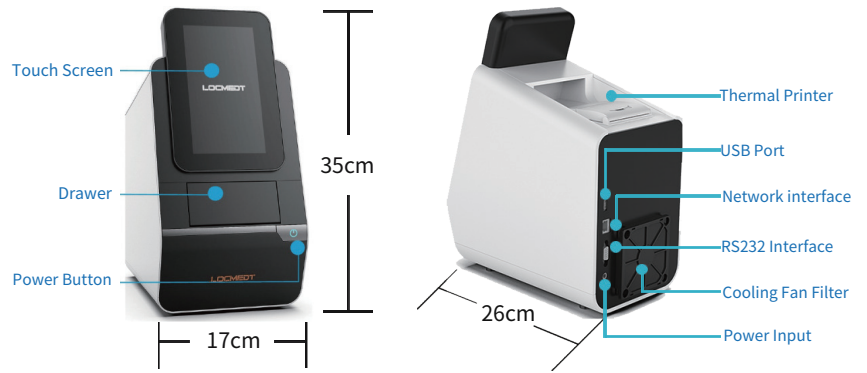
Built-in Intelligent Real-time Quality Control (IQC) system monitors the entire process to ensure the accuracy of the results.



Data Transmission

Stable connection to the hospital HIS/LIS system store data on the management software.

Technical Specifications



Analyzer model	LOC-200
Sample Type	Lithium-heparinized whole blood, lithium-heparinized plasma or serum
Sample Volume	90-120µl
Testing Time	8-12 mins
Testing Principle	Absorption Spectrophotometry
Analytical method	Endpoint method, rate method, two-point method
Light Source	Xenon flash lamp, up to 10° exposures (lifetime-free replacement)
Temperature	37±0.2°C
Precision	0.001Abs
Absorbance linear range	0-3.5Abs
Cross-contamination	0
QC & Calibration	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
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)



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.

Microfluidic Technology

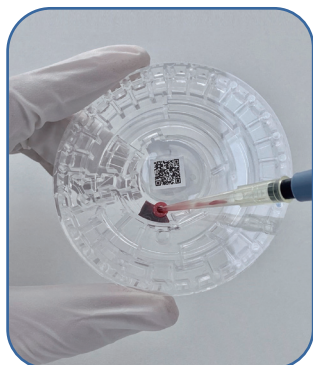
Based on microfluidic technology, lyophilized reagent beads and diluent are pre-installed in the disc. The centrifugal and capillary force of the disc control the fluid in the micro-channel network, and the disc can automatically complete the centrifugation, mixing, reaction and analysis processes. Multi-parameter testing can be performed at the same time, improving work efficiency and reducing consumable costs.



- ◆ Multi-parameter tests on single sample, 10 different panels covers 40 parameters.
- ◆ Individual channel design in panel to avoid cross contamination.
- ◆ Unique lyophilization process, the shelf life of reagent beads is up to 2 years.

Automatic Biochemistry Analyzer LOC-200 3-Steps Easy Operation

1 Step
Add 90-120 μ l sample



2 Step
Insert the disc



3 Step
Read the results



Application Scenarios

- Emergency department
- Pediatrics
- Ambulance
- Various clinical departments
- Public health examination
- Fever clinics
- Elderly Rehabilitation Center
- Primary medical institutions (Community hospitals, village clinics)

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LAB ON CHIP



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