

QT3 Auto Chemistry Analyzer

Quick Reference Guide

Specifications

Parameter	Specification
Sample type	Whole blood, plasma, serum
Sample volume	100 uL (circular rotor); 60-120 uL (sector rotor)
Test time	12 minutes per sample
Throughput	Up to 3 tests at a time
Testing method	Endpoint, kinetic, two-point
Testing principle	Optoelectronic colorimetry, absorption spectroscopy, transmission turbidimetry
Optic system	8 wavelengths: 340, 405, 450, 505, 546, 600, 630, 850 nm
Reaction temperature	37 +/- 0.3 degrees C
Resolution	0.001 Abs
Carryover	0
QC & calibration	Automatic and real-time
Barcode	Automatic 2D barcode reading
Display	7-inch capacitive touchscreen (800x480), multi-language
Result storage	Over 500,000 results
Printer	Built-in thermal printer
Connectivity	4 USB ports, 1 network (LAN) port
Power	100-240 V, 50/60 Hz, 100 VA
Operating conditions	Temperature 10-30 degrees C; humidity up to 85%
Net weight	4 kg
Dimensions (L x W x H)	190 x 220 x 280 mm

Sample Handling & Best Practice

- Warm the reagent rotor to room temperature for ~15 minutes before use, and check the expiry date. Do not use expired rotors.
- Add the sample slowly and vertically with the pipette, using the first stop, ~100 uL, avoiding air bubbles.
- Use lithium-heparin anticoagulant tubes for biochemistry; use sodium-citrate tubes for coagulation panels.
- Abnormal samples (lipemia, hemolysis, jaundice) can bias results high. For lipemia, separate plasma and high-speed spin (16,400 r/min); for hemolysis, resample and re-centrifuge; for jaundice, treat before testing.

Routine Cleaning

Supplies: 23 cm sponge-tipped cotton swabs, 75% ethanol, clean white paper (70 x 110 mm).

1. Power on, tap Test to eject the rotor tray, then power off.
2. Place the clean white paper into the cavity.
3. Dampen a sponge swab with a little 75% ethanol (moist, not dripping).
4. Wipe the inner cavity wall from right to left and outward, repeatedly, until the swab picks up no more residue.
5. Do not touch the temperature sensor on the right inside of the cavity.
6. Carefully remove the white paper, avoiding dropping any debris into the cavity.

Error & Warning Codes - First Actions

If an issue is not resolved by the first action below, contact ClinixLynx support. Do not disassemble the analyzer.

Code	Likely cause	First action
E1002 / E1003	Rotor tray will not eject / lifting assembly stuck	Power off, invert the analyzer and tap the bottom gently, wait 3-5 min, return upright and restart. If it persists, contact support.
E1012	Error during testing - software or abnormal sample	Confirm software is up to date; centrifuge the sample and check for abnormal plasma; retest with a new rotor.
E1013 / E1023	Main motor fault	Contact ClinixLynx support.
E1024	Optical transmitting tube dirty/fault	Contact ClinixLynx support.
W2061 / E2062	Unstable voltage	Check the power source and grounding; if it persists, contact support.
W5031	Analyzer software version too low	Upgrade the analyzer to the latest software version.
W5034 / W5035	QR code unreadable / scanner issue	Ensure the rotor QR code is clean; place a used rotor to test; if it persists, contact support.
W3003	Abnormal sample, or rotor stored too cold / under-warmed	Confirm rotors are stored at 2-8 degrees C and warmed 15 min; centrifuge and retest with plasma if normal.
W2031	Hemolyzed sample	Centrifuge and inspect plasma; retest with plasma if normal, otherwise resample.
W2020	Rotor problem, results low	Centrifuge, collect plasma, and retest with a new rotor.
W2041	Insufficient sample added	Repeat sample preparation with ~100 uL and retest.
W2022 / W2023 / W2024 / W2051	Abnormal sample, operation, or rotor	Verify procedure; centrifuge and check plasma; retest with plasma.
W3001	No results - improper handling / damaged packaging	The rotor cannot be reused; retest with a new rotor. If it persists, contact support.
Screen / touch issues	No power or poor grounding	Try a different, well-grounded outlet; if it persists, contact support.

This quick reference summarizes routine operation and support guidance. It is not a substitute for the full instructions for use. For service, always contact ClinixLynx.