LabSentra

Connecting Every Sample. Empowering Every Decision.

USER MANUAL

Laboratory Technician

Bench staff who receive specimens, run quality control and enter results for review by a scientist.

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About this manual

This manual is for the **Laboratory Technician** role in LabSentra. It explains the screens you will use and the exact buttons to press, in the order you meet them in a working day.

Screens show only what your role is allowed to do. If a button described here is missing, your laboratory may have configured things differently – ask your administrator.

Your day at a glance

1. Receive or reject incoming specimens
2. Run and record QC before patient samples
3. Enter results on the worklist or bench
4. Flag problems: repeats, rejections, nonconformities

Your menu

Menu group	Items you will see
Operations	Patients, Clinicians & clients, Orders, Transport, Receipt, Samples, Worklists, Results & Verification
Output	Reports, Deliveries, Notifications
Workbenches	Haematology, Chemistry, Coagulation, Urinalysis, Immunology & Serology, Parasitology, Microbiology, Molecular, Histopathology, Cytology, Blood Bank
Quality	Quality dashboard, Documents, Nonconformities, Risk register, Environment, QC, Sigma metrics
Equipment	Equipment register, Due list, Equipment KPIs
Settings	Administration, Test Catalogue, Integrations, Voice

Signing in for the first time

Your laboratory administrator invites you by e-mail. LabSentra never asks for your password by e-mail or phone.

1. Open the invitation e-mail and follow the link. You arrive at **Welcome to LabSentra**.
2. Enter your full name (optional), a **New password** of at least 12 characters, and **Confirm password**.
3. Select **Activate account**. If the page says the link is invalid or has expired, ask your administrator for a new invitation.

Everyday sign-in

1. Go to **labsentra.com** and choose **Sign in**.
2. Enter your e-mail and password and select **Sign in**. You land on your start page.

Forgotten password

1. On the sign-in page choose **Forgot password?**, enter your e-mail and select **Send reset link**.
2. Open the e-mail, choose **Set a new password**, enter it twice (at least 12 characters) and select **Update password**.

> **Tip.** You can add an authenticator for extra security under **Profile → Two-step verification → Add authenticator**.

Finding your way around

Element	What it does
Sidebar	Groups of modules. You only see items your role is allowed to use (see "Your menu"). Long groups can be collapsed.
Branch selector	Choose **All branches** or one branch (shown as *code · name*). Lists, queues and dashboards follow this choice.
Organisation selector	Shown only if you work for more than one laboratory. Changing it resets the branch.
Go to… (Ctrl/Cmd + K)	Command palette: type a module name to jump straight to it.
Scan or type barcode / ID	Scan a specimen, order or patient barcode (or type the number) and press Enter to open it. "Not found" means no match in your branch.
Notifications bell	Unread count and the latest 8 alerts. Click one to open the record; **Mark shown as read** clears them.
Account menu	**Profile** and **Sign out**.

Your profile

- **Personal details** – full name, phone, professional title and registration number. Select **Save changes**. Your title appears beside your e-signature on reports.
- **Change password** – at least 12 characters.
- **My notifications** – mute or unmute categories you can receive (some safety-critical categories cannot be muted).
- **Two-step verification** – add or remove your authenticator.

> **Tip.** Sign out when you leave a shared workstation: Account menu → **Sign out**.

Signatures, reasons and statuses

LabSentra protects patient safety and the audit trail. Some actions need more than a click:

Marked in this manual	What happens on screen
(reason)	You must type why. The reason is stored in the audit trail.
(confirm)	A confirmation dialog asks you to check before continuing.
(e-signature)	The **Electronic signature** dialog asks you to re-enter your **Password** and choose **Sign**. It shows what you are signing and records it in the audit trail. A wrong password shows "Password incorrect".

- Every change is recorded with who, when, what and why – it cannot be edited or deleted.
- Turnaround (TAT) chips: **red** = breached, **amber** = 30 minutes or less left, **green** = on time.

- Result flags: **H/L** outside the reference interval, **HH/LL** critical, **DELTA** big change from the last result, **AMR** outside the measuring range, **NO REF** no reference interval.
- Colour is never the only signal – every status also has a word or icon.

Transport between sites

1. Open **Transport** → **New batch** → **Create batch**.
2. Scan each specimen and **Add** it to the open batch.
3. Select **Dispatch** and record the box temperature. Status becomes **dispatched**.

At the receiving site, open the batch and choose **Receive batch**. If a tube is missing, choose **Receive with {n} missing** – missing specimens are flagged for follow-up.

Specimen receipt

1. Open **Receipt** and scan the specimen barcode (Enter). The specimen is received.
2. Check the label, container, volume and condition. Record haemolysis as none / slight / moderate / gross.
3. Select **Accept**, then **Next specimen**.

Rejecting a specimen

Choose **Reject** → pick the reason code → **Reject specimen**. Some reasons need notes (at least 5 characters). The requester is told that a recollection is needed.

Aliquots

Choose **Aliquot** → **Create aliquots** to split a primary tube. Each aliquot gets its own barcode and stays linked to the parent.

Finding a specimen

Samples lists specimens with status chips (labelled, collected, in transit, received, accepted, rejected, in analysis, stored, referred out, disposed). Open one to see its **Sample Passport** – every hand-over with time and person.

Worklists and result entry

- **Worklists** has tabs **To do**, **Awaiting validation**, **Awaiting authorisation** and **On hold**. Scan a barcode and press Enter to open the item or its bench. Use **Compact density** to fit more rows.
- Open a test to enter results. Enter moves to the next analyte. Select **Save results ({n})**.
- Calculated values and flags are worked out by the system from your laboratory's rules – check any H, L, HH, LL or DELTA flag before you continue.
- **Request repeat** (reason, confirm) sends the test back for re-analysis.
- **Add comment** adds an interpretive comment; **Retract** (reason, confirm) withdraws one.

Department benches

Benches show a result grid for many samples at once. Enter moves to the next cell. Coded shortcuts: **N** = Negative, **1**–**4** = 1+ to 4+. Cells marked **QC locked** cannot be saved until QC is released.

Bench	What you can do
Clinical Chemistry	**Save results**; **Indices** → **Save indices** (haemolysis, icterus, lipaemia)
Haematology	**Save results**; blood film with differential counter (keys 1–7 count cells, Ctrl/Cmd+Z or Backspace undoes) → **Save blood film**
Coagulation	**Save results**; reagent lots (QC users) **Register** / **Activate** / **Retire**
Immunology & Serology	**Start run** → **Add control** → **Save results** → **Close run** (confirm). Results only save in an open, valid run
Urinalysis	**Save results**; a positive nitrite automatically adds a urine culture
Parasitology	Malaria film → **Save film** (density calculated); stool → Seen / Not seen → **Save**

A sample that turns out unsuitable at the bench can be rejected with **Reject specimen** (reason code, notes, confirm).

Specialist departments

Microbiology

1. Open **Microbiology** and the culture. **Start culture**, then record growth with **Save culture**.
2. **Add isolate** for each organism; **Enter AST** → **Save susceptibilities**. Results show S / I / R / SDD / NI grouped First-line, Restricted and Reserve. Overriding an interpretation needs a reason.
3. Use **Suppress** / **Report** (reason, confirm) for cascade reporting.
4. **Release preliminary report** (e-signature) gives the clinician an early result; **Finalise culture** sends it to Verification.

Molecular

New run → **Create run** (positive control lot and Ct range, plus a negative control or NTC) → **Add control** → **Record run results**. A run with failed controls shows **FAILED QC** and its results cannot be released. **Cancel run** needs a reason.

Histopathology and cytology

- **Accession case** → grossing (**Save grossing**) → **Request stain** → slides move ordered → cut → stained → delivered → reviewed (**Mark {next status}**).
- Write the report and **Save report** (autosaves every 30 seconds), then **Complete for sign-out**.
- Cytology cases may need a rescreen: **Agree** or **Disagree** (notes) → **Record rescreen**.

Quality control (QC)

Open **QC** (Quality). Tabs: Enter QC, Levey-Jennings, Lockouts, Materials, Lots, Targets, Westgard rules.

1. Run QC before patient samples and after calibration, maintenance or reagent lot change.
2. In **Enter QC**, pick the analyser, material and level, enter the value and select **Record QC** (Enter submits).
3. LabSentra applies the Westgard rules and shows **accepted**, **warning** or **rejected** with the z-score and any rule broken (1-3s, 2-2s, R-4s, 4-1s, 10x reject; 1-2s warns).
4. Check trends on the **Levey-Jennings** chart (mean, ±1/2/3 SD; green, amber, red points).

> **Important.** When QC is rejected and patient locking is on, the “QC rejected” dialog tells you patient results are locked. Bench cells show **QC locked** and verification is blocked until a reviewer releases the lockout.

Set-up (materials, lots, targets and rules) is under the other tabs: **New …** / **Create …** / **Save changes**. The option “Lock patient results when QC is rejected” is set per rule set.

Reports and deliveries

- **Reports** lists preliminary, final, amended and corrected reports. Open one to see every version and the PDF.
- Report PDFs carry a QR code so anyone can check authenticity at labsentra.com/verify.
- **Deliveries** tracks e-mail, SMS, portal and interface delivery: queued, sending, sent, delivered, acknowledged, failed, retrying, dead letter.

Reporting problems

Choose **Raise NC** in the top bar whenever something goes wrong – a damaged delivery, a wrong item, an expired lot, a temperature excursion in the store. Describe what happened; the quality team investigates.

When a procedure you must follow is issued or revised, open it from the Quality dashboard and choose **I have read and understood v{n}**.

Practising in the free demo

- A free demo lab contains synthetic patients at every stage. The yellow bar shows the days left.
- Use **View as** (“Try the app as…”) to switch to your role and practise exactly what you will see.
- In the demo, printing, PDFs and branding are removed, and SMS, e-mail, claims, mobile money and portal invites are not really sent.
- Same-person checks are relaxed so one person can play every role. In your live lab they apply in full.

Getting help

- Your first contact is your laboratory manager or system administrator – they can reset access, change your role and fix configuration.
- If something looks wrong in a result or report, do not work around it: raise a nonconformity (**Raise NC** in the top bar) so it is investigated.
- Product support and training: **labsentra.com/contact**.

> **Note.** This manual describes LabSentra as configured by default. Your laboratory may have switched some features off, added custom roles or changed who issues reports (scientist or clinical authoriser) – your administrator can confirm.