



TMRS Medlab
MEDICAL · LABORATORY

LABORATORY SETUP GUIDE

How to set up a diagnostic laboratory



A practical roadmap for planning, building, equipping and commissioning a modern diagnostic laboratory — from test menu to accreditation readiness.

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STEP 1-2

Plan the lab before you draw it

A successful laboratory starts on paper. Before any bench is drawn, define the **test menu** you'll offer, the **daily and peak volumes** you expect, and the **turnaround times** your clinicians need. These three numbers drive almost every later decision.

Layout & infrastructure

- **Benching & ergonomics** — durable, chemical-resistant surfaces at correct heights.
- **Water purity** — analyser-grade purified water where instruments require it.
- **Power & UPS** — clean, backed-up power for critical analysers and cold chain.
- **Ventilation & biosafety** — fume extraction, biosafety cabinets and containment.
- **Waste handling** — compliant segregation and disposal.



STEP 3-5

Instrumentation, commissioning & timelines

Instrumentation

Choose analysers around your menu and volumes, not the other way around. Consider throughput, reagent cost and availability, service response times, and connectivity to your laboratory information system.

The "best" analyser is the one that fits your workload, budget and service reality — vendor-neutral advice matters most here.

Commissioning & accreditation

Before going live, a laboratory must be validated: instrument qualification (IQ/OQ/PQ), quality-control setup and workflow validation. Building with ISO 15189 readiness in mind from the start makes eventual accreditation far smoother.

Realistic timelines

A mid-sized diagnostic laboratory typically moves from design sign-off to commissioning over several weeks to a few months, depending on civil works and instrument lead times. Phasing core testing first often de-risks the programme.

Talk to our Zürich team

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Medical equipment supply & laboratory setup — vendor-neutral, end to end.