⚠ PROPRIETARY DOCUMENT — OPES Health Systems SARL · OPES Lab Product Brochure · For authorised distribution only

DIAGNOSTICS · CORE PLATFORM

OPES Lab

Laboratory Information System (LABIS)

> Complete laboratory management from order to validated result — integrated with OPES EMR and OPESCare in real time.

OPES Lab (LABIS) manages the complete laboratory workflow: from clinician test orders received directly from OPES EMR, through specimen collection, processing, quality control, and result validation, back to the patient record — automatically, with no manual transcription errors.

AT A GLANCE

6+	lab disciplines supported
Real-time	result to EMR integration
QC	built-in quality control
LIS	analyser interface (HL7)
EN / FR	Fully bilingual interface
HL7 FHIR	Interoperability standard
22	OPES systems it connects to

OVERVIEW

Built for African healthcare, not adapted for it

It supports haematology, biochemistry, microbiology, serology, immunology, and parasitology workflows. Results are validated by the lab technician, then immediately available in the ordering clinician's OPES EMR record with abnormal values automatically flagged.

Who is OPES Lab for?

- ✓ Hospital laboratory departments
- ✓ Standalone clinical laboratories and diagnostic centres
- ✓ Public health and reference laboratories
- ✓ NGO laboratory networks (e.g. TB, HIV programmes)
- ✓ Medical school teaching laboratories

Problems OPES Lab solves

1. **Manual transcription errors in result reporting**
   Results flow electronically from the analyser to the patient record — zero manual entry.
2. **Lost or delayed results reaching clinicians**
   Validated results appear in the EMR the moment the lab technician approves them.
3. **No quality control tracking**
   Built-in QC protocols with Levey-Jennings charts and Westgard rules.
4. **Reagent and consumable waste**
   Stock management module tracks reagent usage per test, flagging shortages before they cause service disruption.

MODULES

Everything in one connected system

Each module activates independently — start with Registration and Consultation, add Lab, Pharmacy, and Billing as you grow.

Order Management

Receive and triage lab orders from OPES EMR or direct walk-in requests.

- Electronic order receipt from EMR
- Walk-in specimen registration
- Panel & individual test support
- Priority (STAT vs routine) queuing

Specimen Processing

Track specimen collection, transport, receipt, and processing with barcode or QR labels.

- Barcode specimen labelling
- Chain of custody tracking
- Rejection criteria logging
- Batch processing queues

Result Validation

Two-tier validation (technician + pathologist) before results are released to the EMR.

- Reference range flags
- Delta checks across visits
- Critical value auto-alerts
- Electronic authorisation

Quality Control

Built-in QC module with Levey-Jennings charts, Westgard rules, and audit trails.

- Levey-Jennings charts
- Westgard rule violations
- QC lot tracking
- External QA programme support

PATIENT WORKFLOW

How OPES Lab moves a patient through your facility

From the moment a patient arrives to discharge, every step is captured — and every department sees the full picture in real time.

1. **Order Received** — From EMR or walk-in registration
2. **Specimen Collected** — Barcode label printed & attached
3. **Processing** — Specimen analysed in lab
4. **QC Check** — QC rules verified automatically
5. **Validated** — Technician / pathologist approves
6. **Result Released** — Appears instantly in OPES EMR

KEY BENEFITS

Why facilities choose OPES Lab

Zero transcription errors

Results flow electronically from analyser to patient record — no manual copying, no mistakes.

Faster turnaround times

Digital workflows cut average result turnaround time by 40% in typical deployments.

Built-in quality control

Westgard rules and Levey-Jennings charts ensure result accuracy before any result is released.

Real-time EMR integration

Results in the clinician's hands the moment the lab validates them — no phone calls, no faxes.

OPES ECOSYSTEM

OPES Lab connects everything

OPES Lab is the clinical core — every other OPES system feeds into it or reads from it.



OPES Lab — Clinical Core

OPESCare **OPES EMR** **OPES Hospital HIS** **RADIS**

TECHNICAL SPECIFICATIONS

Built to enterprise standards

Analyser Interface

Protocol	**HL7 v2 / ASTM E1381**
Connection	**RS-232 · TCP/IP · USB**
Disciplines	**Haematology · Biochemistry · Micro · Serology**
Manual entry	**Supported for non-interfaced tests**

Deployment

Options	**On-premise · Cloud**
Minimum server	**4 vCPU, 8 GB RAM**
Offline mode	**Partial (local processing)**
Database	**MySQL 8 / PostgreSQL 15**

Security

Encryption	**AES-256 at rest · TLS 1.3**
Authentication	**Role-based (Tech / Pathologist / Admin)**
Audit logging	**All validations & releases logged**
Result traceability	**Full chain of custody**

See OPES Lab in your facility

Book a free demonstration tailored to your facility type. Contact our team to schedule a live demo, request a pilot deployment, or get a custom quote.

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