

miLab™

AI-Powered Digital Microscopy

Enabling malaria diagnostics, CBC analysis & blood cell morphology, and cervical cytology testing



Do Less, See More

From Sample to Result - Fully Automated

Reinventing Microscopy with Automation and AI

Workflow*

- 01 Sample Loading
- 02 Smear, Fix, Stain
- 03 Digital Optical imaging
- 04 Embedded AI Analysis
- 05 Result on Screen



Slide Preparation

AI Analysis

Diagnostics

(*Workflow may vary slightly depending on the product.)

Core Technology

NGSI™ (Next Generation Staining and Immunostaining)

A solid-based staining technology that transfers dye by pressing a stain-infused hydrogel directly against the sample

On-device AI*

Noul's AI algorithm embedded in the miLab™ platform provides standardised results from digital image data

*Selected as a 'Top 5 AI Startup Trend' at NVIDIA GTC 2021.

All-in-one platform

Integrates over 40 technologies including bio, material, chemicals, optics, semiconductors, software, hardware, and AI into a fully automated bench-top device, replicating expert manual labor and know-how.

Benefit

01



Qualified On-site Microscopy Test

02



Entire Diagnostic Process Automation

03



AI-based Technology for Cell Morphology Analysis

04



Flexible Access with Digitalization



Designed for Reduced Environmental Impact

miLab™ NGSI™ technology eliminates methanol, minimizes liquid reagent use, and generates virtually no wastewater — reducing operational waste while maintaining high diagnostic performance.

One Platform, Multiple Diagnoses

For Malaria, CBC & Blood Morphology, and Cervical Cytology



miLab™ Platform

An all-in-one system that fully automates microscopic diagnostics from sample preparation to AI-driven analysis.

miLab™



miLab™ Analysis Software

miLab™ Viewer / A viewer for real-time review of AI-generated results on the miLab™ Platform.

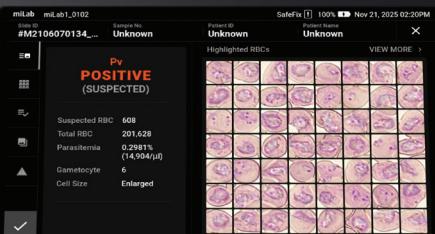


miLab™ Cartridge

A smart, scalable cartridge adaptable to a wide range of blood and cytology diagnostics.

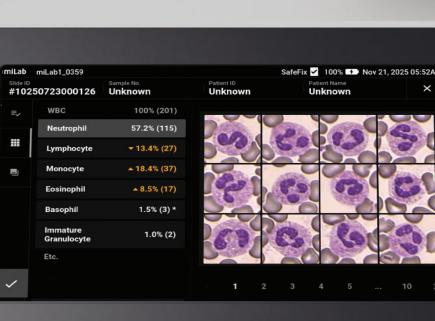
miLab™ MAL

Cartridge
AI-assisted malaria diagnosis



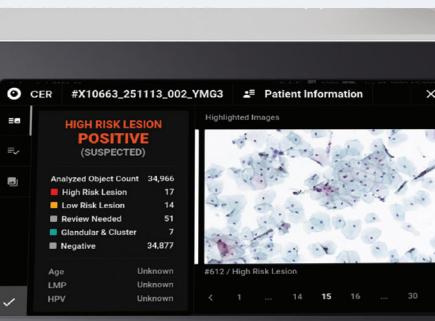
miLab™ BCM

Cartridge
AI-powered digital hematology for CBC & morphology



miLab™ CER

Cartridge
AI-based cytology for PAP smear screening



Hematology

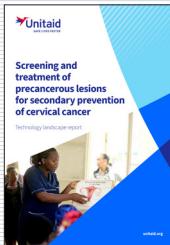
Cytology

Empowering Diagnostics, Everywhere.

Our Mission

We explore global challenges that threaten human health and life, discover novel potential solutions, and realize those possibilities.

Validated by  Unitaid



Technology Landscape: Screening and Treatment of Precancerous Lesions for Cervical Cancer Prevention, 2024

“A computer-assisted cytology system that uses an AI-based algorithm”, miLab™ CER



Malaria Diagnostics Market and Technology Landscape, 2022

“The Most Advanced Digital Microscope and Fully Integrated Bench-top Platform”, miLab™ MAL



Aligned with WHO's PPC (Preferred product characteristics) for Digital Malaria Microscopy



Global Presence, Local Impact

Partnering with **100+ organizations** in **25 countries** - advancing research and field operations across more than **20 locations worldwide**.

HQ : South Korea Regional Office : Switzerland Local Team : Germany, the UK, France, Mexico & Brazil

Do Less, See More with **noul**



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