LIS Module

HCLAB Micro

Innovative solutions for the
clinical microbiology lab

HCLAB Micro enables laboratories to efficiently process microbiology specimens and enter results electronically, reducing turnaround times and improving reporting.

HCLAB Micro readily integrates with a range of microbiology analysers, reducing transcription errors. Enhanced by a sophisticated rules engine, result processing is intelligent and streamlined.

Laboratory managers benefit from a range of reporting tools from day-to-day workload statistics to infection control reports.
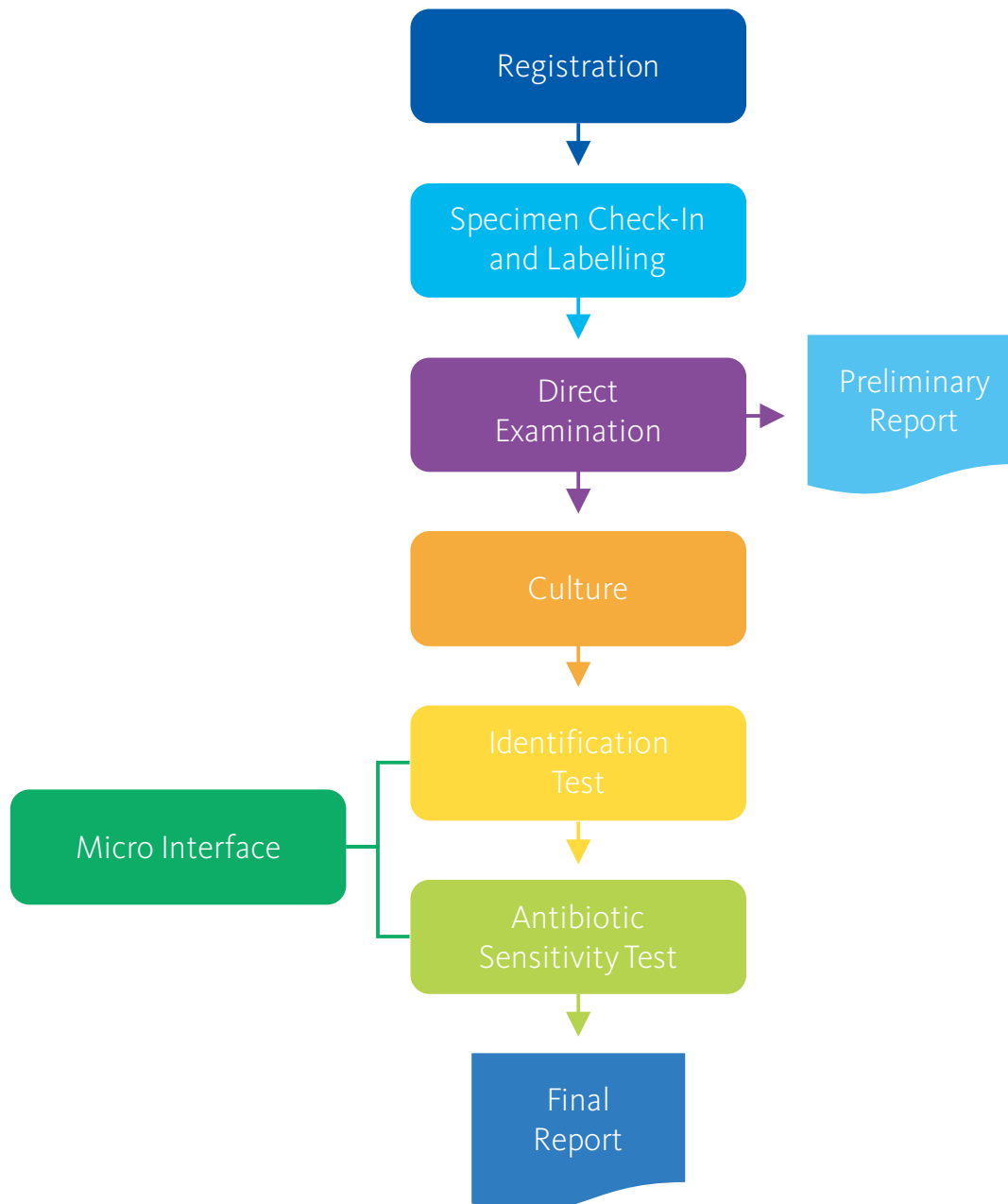
HCLAB Micro is a Smart Client system, fully integrated with the HCLAB LIS.

The user interface is designed to ensure an intuitive user experience and easy navigation for all functions from bench user and reporting to administration and configuration.

Workflow

HCLAB Micro is designed to support the unique workflow of the Microbiology department.

```
           Registration
                │
                ▼
      Specimen Check-In
        and Labelling
                │
                ▼
           Direct          ──►   Preliminary
         Examination              Report
                │
                ▼
           Culture
                │
                ▼
Micro ─────  Identification
Interface        Test
                │
                ▼
           Antibiotic
         Sensitivity Test
                │
                ▼
            Final
           Report
```

The specimen registration function allows users to enter the specimen site description as well as printing.

HCLAB Micro supports preliminary reporting for direct examination results before proceeding to follow-up work, i.e. identification and antibiotic sensitivity testing. These tests may be performed using automated analysers and the testing results can be sent to HCLAB via Micro Interface.
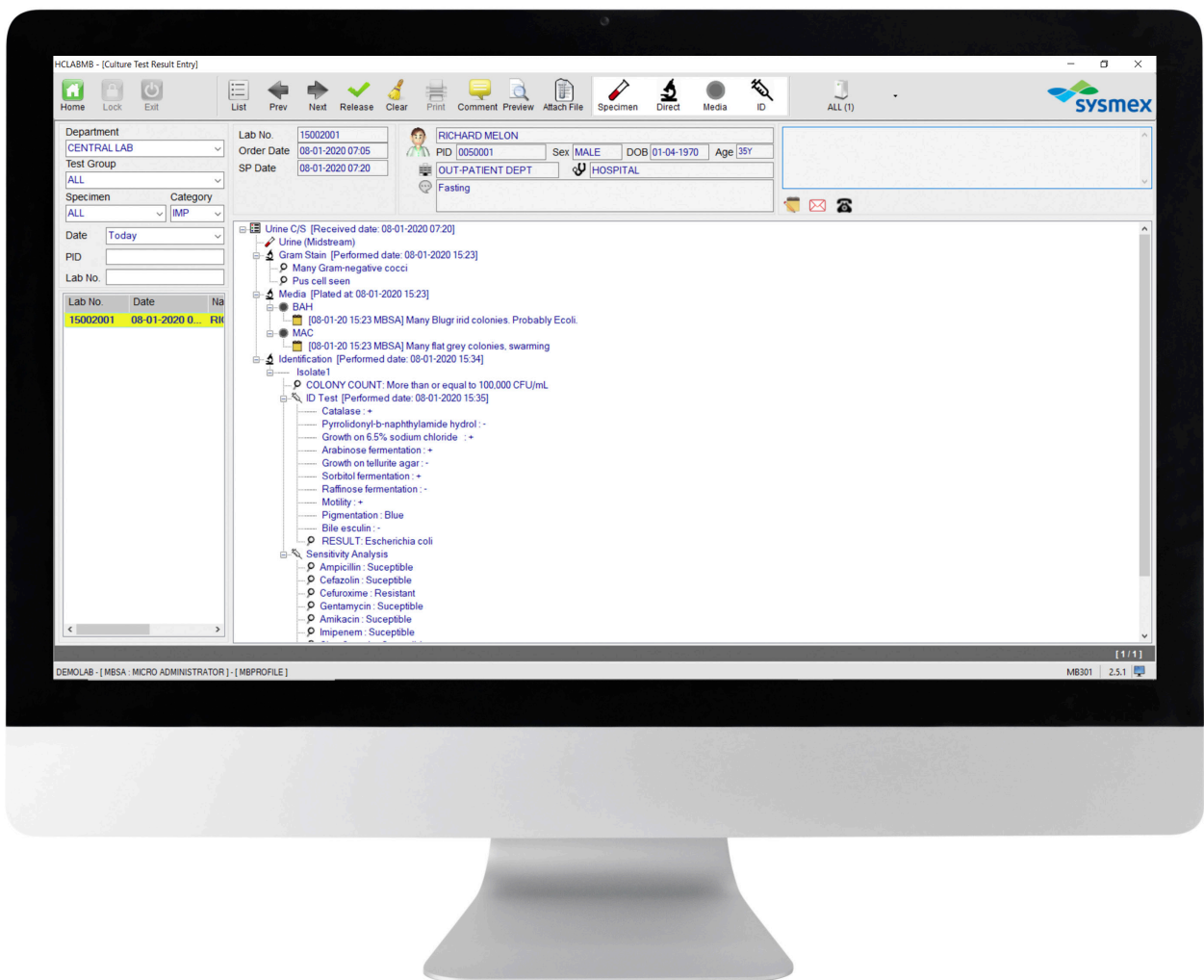
The completed results will come together to produce a final report.

Electronic Worksheets

The electronic worksheets in HCLAB Micro are intuitive, easy-to-use, and eliminate the need for paper documentation. Features include:

- Easy recording of observations:
    - media results, direct examination results
    - dynamic selection from dictionaries, organism ID and antibiotic susceptibility
- Batch result entry option for no-growth
- Intelligent multi-purpose rules engine, including:
    - automatic insert of ID test and antibiotic code or panel assign default susceptibility result
    - delta check for identified organisms
    - trigger alerts and warning messages for unusual and abnormal sensitivities
- One-click access to easily print sample and media labels
- Seamless view for full patient history at any point in the workflow
- Total result view with drill-down feature for greater detail

Once the specimen has been processed, the electronic worksheet system facilitates fast processing of reports and result approval and validation.
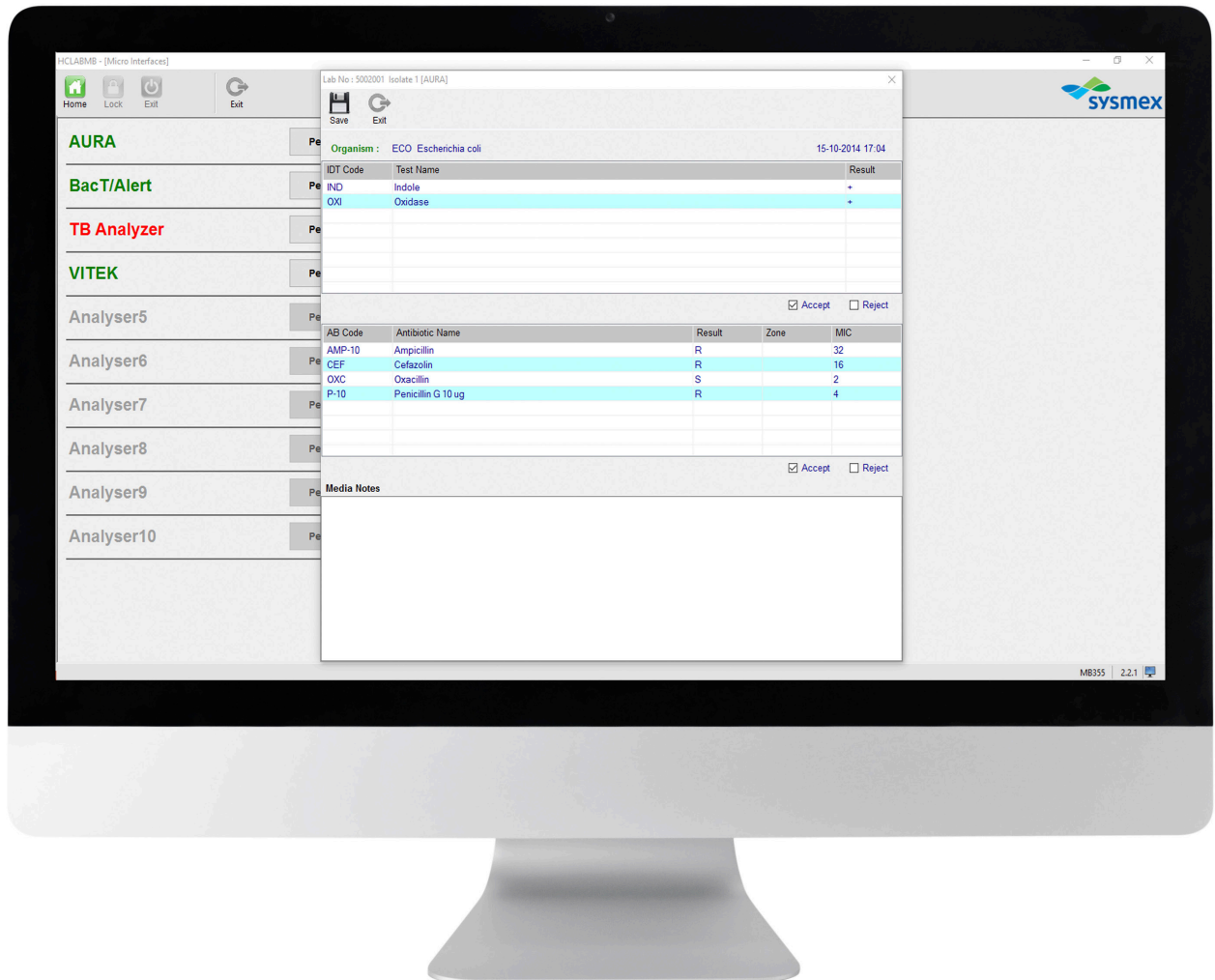
HCLAB Micro Rules Engine empowers the microbiology team with result entry decision support

Microbiology Interfaces

HCLAB Micro supports bi-directional interfacing to most microbiology analysers, i.e. identification + antibiotic susceptibility and microbial detection systems (blood culture). With interfaces between HCLAB Micro and your microbiology analysers, data flows electronically, eliminating transcription errors and saving time.

Automatic Blood Culture

The HCLAB Micro module allows users to apply rules to auto-verify and release negative test results received from the blood culture analyser.

If test results are entered manually, a batch release function is available in HCLAB Micro for users to release a batch of no growth samples. Both features help to increase productivity and improve report turnaround in the laboratory.

Management Reports

Management reports are an essential component of the daily running of the laboratory.

Using HCLAB Micro, statistical reports can be run in the areas of workload, turnaround times, specimen rejection and test count.

For infection control, data can be gathered on the following:

• Organism versus Specimen Type
• Organism versus Location
• Organism versus Patient
• Sensitivity Summary
• Antibiotic for One Organism

HCLAB Micro is a completely paperless system that capably manages all microbiology request types from simple to complex. HCLAB Micro features advanced functionality for the microbiology analytical workflow with multiple options for result entry; aiding the laboratory scientist at every stage in the process.

Laboratories with HCLAB Micro benefit from improved quality and reduced turnaround times.

For more information about the HCLAB Micro module, please contat your local Sysmex HCLAB representative.