



The smart solution for
error-free Sample Preparation?



ProTube™

100% traceability for
improved patient safety

Finally, **sampling is smart and safe.**

“ In just a few minutes I have to guarantee a comfortable draw to my patient and a thorough preparation of the tubes for the Core Lab. ”



The accuracy of clinical tests is greatly influenced by the quality of the incoming samples.

- Is the sample unequivocally associated with the right patient?
- Is the specimen in the appropriate tube and properly labeled?
- Has the sample suffered from transport conditions?
- Is the blood volume sufficient for the tests prescribed?

Errors in the pre-analytical phase can severely impact the quality of test results being provided to clinicians, potentially leading to wrong treatment decisions.

ProTube™ is a compact automation and traceability solution for collection centers designed to mitigate pre-analytical errors. Thanks to its small footprint (192x305x323 mm) it can easily be placed on desks and shelves. Its intuitive user interface guides the phlebotomist step by step through the collection process, assuring the correct match between patients, tests, tubes and draw orders.

Samples automatically labeled with ProTube™ are 100% lab ready and free up time for an improved patient experience. Moreover, ProTube™'s smart Analytix Software platform allows for continuous optimization of the sampling process.

Finally, all sampling steps are 100% traceable - for unprecedented patient safety and regulatory compliance.

The **Value**

1. Error-free sample collection and preparation, fully traceable.
2. Increased patient safety and experience.

Project Design: the way to **your tailor-made solution**

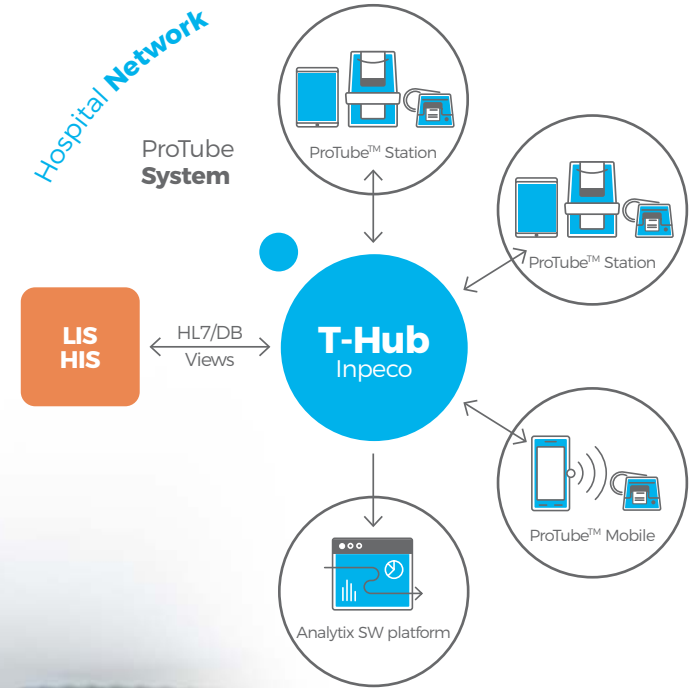
Designing an automation solution around your needs is easier than you think, when you partner with the global leader in Total Laboratory Automation. Following an in-depth analysis of your current workflow and your key requirements, our **Customer Solution Specialists** design a game-changing automation solution for you, in just four steps.



ProTube™

The ProTube™ Suite,
scalable to your needs...

...and open to connect



MOBILE CART
FOR COLLECTION
AT THE BEDSIDE



SMART SCALE*
CHECKS RIGHT
BLOOD VOLUME
BEFORE
TRANSPORT



MOBILE DEVICE
FOR POINT OF
CARE COLLECTION



**ANALYTIX
SOFTWARE PLATFORM**
FOR PRE-ANALYTICAL
PROCESS
MANAGEMENT



**TRANSPORTATION
MODULE**
TRACKING AND
MONITORING

*Not yet commercially available

Right **patient**

Positive patient identification



Patients are at the center of care. Positive patient identification is a vital prerequisite for premium quality medical outcomes.

Connected with the LIS or HIS, ProTube™ supports positive patient identification using test request forms, patient wristbands, ID cards or biometric data*. ProTube™ links the patient ID with the test request, for an error-free sample collection.

Key Features

- Phlebotomist identification
- Health card reading
- Automatic patient data retrieval
- Integrated barcode scanners

Benefits

- Error-free sample collection process
- Improved patient safety

Right **tube**

Improved efficiency



Patient verification and appropriate tube selection are critical steps that require time and attention.

ProTube™'s intuitive user interface guides the phlebotomist step by step through the process, proposing the right tubes needed for the required tests and the order of draw. The system recognizes tube lengths and cap colors. In case a wrong tube is selected, ProTube™ alerts the operator and interrupts the sample collection process.

Key Features

- Real-time visualization of the preparation process
- Double tube check (cap color and tube length)
- Recommends order of draw and no. of tube inversions
- Clinical notes and sample handling reminders

Benefits

- Intuitive and efficient sampling
- Reduced sample retakes



1

Positive patient identification



2

Tube selection



Right **label**

Process automation



Immediate recognition and reading of tubes at laboratory check-in is essential for a speedy and efficient analytical process.

ProTube™ automatically labels tubes in front of the patient, always leaving an inspection window to verify sample volume and quality - for "lab ready" specimens after every draw.

Automated tube labeling also frees up time of the phlebotomist to focus on the patient and make him feel at ease.

Key Features

- Labeling also for non-standard containers
- Tubes "lab ready" for automation and analyzers
- Tube handling without consumables (trays & bags)
- Configurable label layout, based on laboratory needs

Benefits

- Labeled samples are 100% "laboratory ready"
- Enhanced patient experience



Tube labeling

Right **data**

Flawless tubes



Knowing the exact time a sample was collected is critical to assess sample stability and potential factors that may affect interpretation of test results.

By tracking every step along the sample journey, including time and the doer, ProTube™ provides complete process visibility throughout the entire preanalytical phase.

With built-in alerts the system guides the user to follow the right process and promote compliance to regulatory standards.

Key Features

- Single tube validation
- Sampling time and clinical notes reported to the LIS
- Alerts for the handling of sample transportation
- Pending samples visualization, before order completion

Benefits

- Seamless sample traceability
- Regulatory compliance supports center certification



Sample check-out

ProTube™

Analytix **Software Platform**

Seamless traceability, total process control.

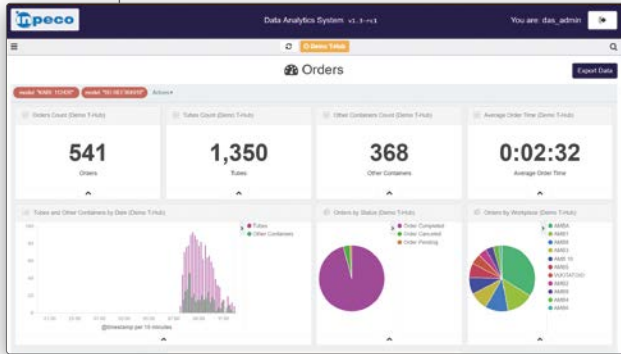


ProTube™ traces relevant events along the sample collection process and makes the sample history available at your fingertips. It's powerful Analytix Software Platform offers customizable reporting dashboards (graphs, KPIs) that provide you with actionable insights, allowing you to optimize your site's clinical, operational and financial performance.



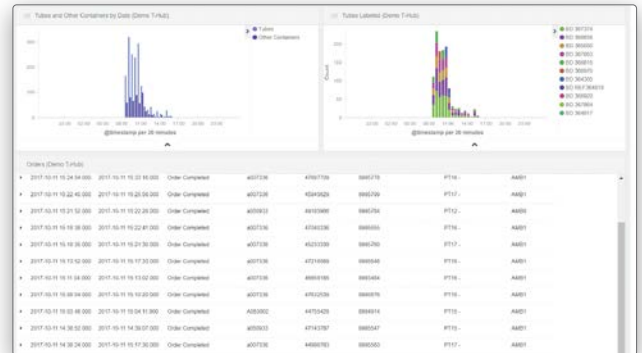
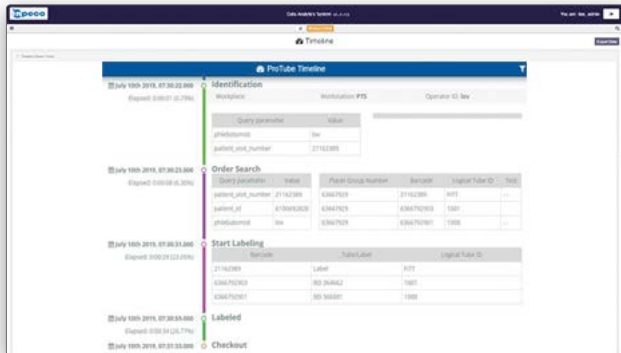
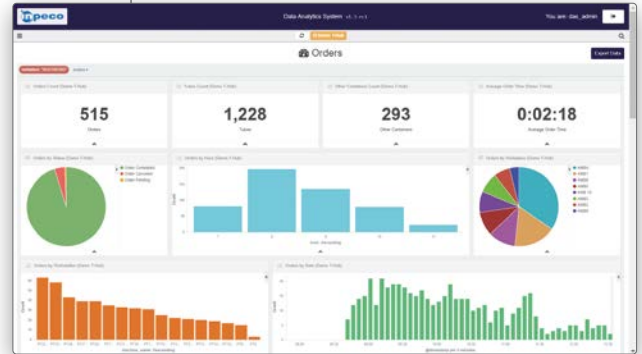
LAB DIRECTOR

- Pre-analytical TAT
- Production output



COLLECTION MANAGER

- Workload distribution
- Individual sampling efficiency



QUALITY MANAGER

- Traceability data (action, doer, time)
- Quality indicators*



FINANCE MANAGER

- Consumption of consumables
- Process costs*

ProTube™ Mobile

100% Traceability to go

When sampling needs to be performed at remote points of care, ProTube™ Mobile is the answer. The smart portable solution assures 100% traceable blood draws in hospital wards or home collection settings.

The system includes a handheld device and a compact, lightweight printer; its clever software downloads the worklist, guides the phlebotomist through the collection process and the Bluetooth printer produces labels in front of the patient - online or offline.

ProTube™ Mobile ensures positive patient identification and safe sample preparation - for 100% traceability and enhanced patient experience.



ProTube™ Transport

Full traceability **from collection to clinical lab**

Monitoring the condition of blood samples during transportation to the clinical laboratory is key, as only specimens of impeccable quality guarantee reliable test results. ProTube™ Transport establishes the critical link between the collection point and the laboratory. It is a smart solution featuring a data logger and traceability tags compatible with commercial racks and transportation boxes, as well as a fast laboratory check-in station to optimize sample accessioning in the clinical lab.

Its clever software digitally pairs specimens to a rack and its corresponding box, guaranteeing full sample transportation traceability and chain of custody through authorized transport courier identification. Moreover, the software automatically registers all samples arriving in the lab and checks whether transportation conditions were compliant with acceptability criteria to verify sample viability - for maximum patient safety and peace of mind for laboratory managers.



*Commercial racks and transportation box are not included

ProTube™

Facilitates **compliance with guidelines**

JOINT COMMISSION GUIDELINES

Joint Commission Guidelines requiring the use of **at least two identifiers** to verify a patient's identity

WORLD HEALTH ORGANIZATION

Recommendations of the WHO Collaborating Centre for Patient Safety for the **order of sampling tubes**

✓ RIGHT **patient**

✓ RIGHT **tube**

✓ RIGHT **label**

✓ RIGHT **data**

CLSI

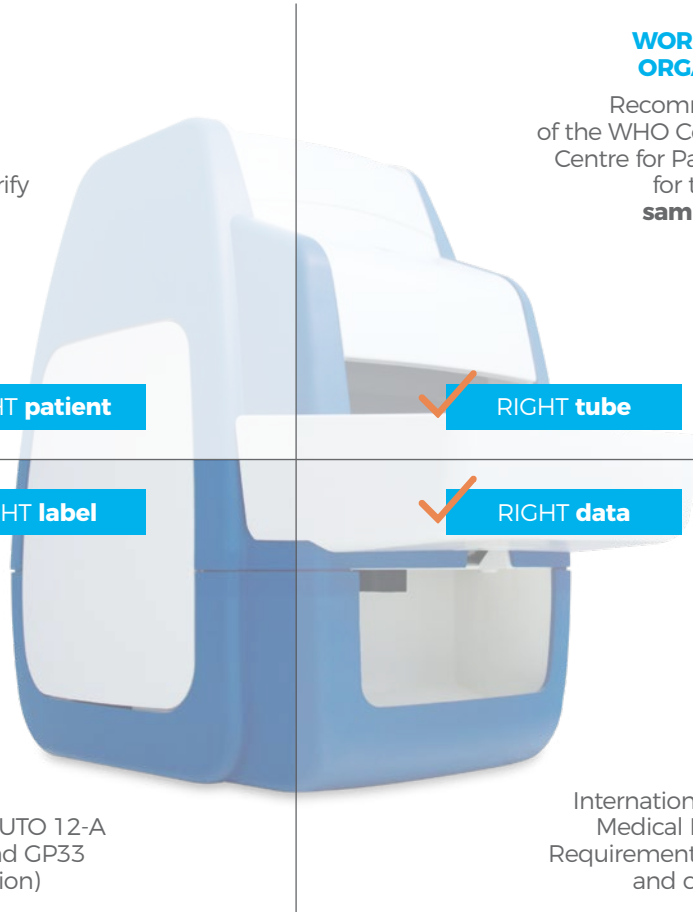
Clinical Lab Standard Institute guidelines AUTO 12-A (Specimen Labels) and GP33 (specimen identification)

ISO 15189 ISO 20658

International Standard Medical Laboratories Requirements for quality and competence

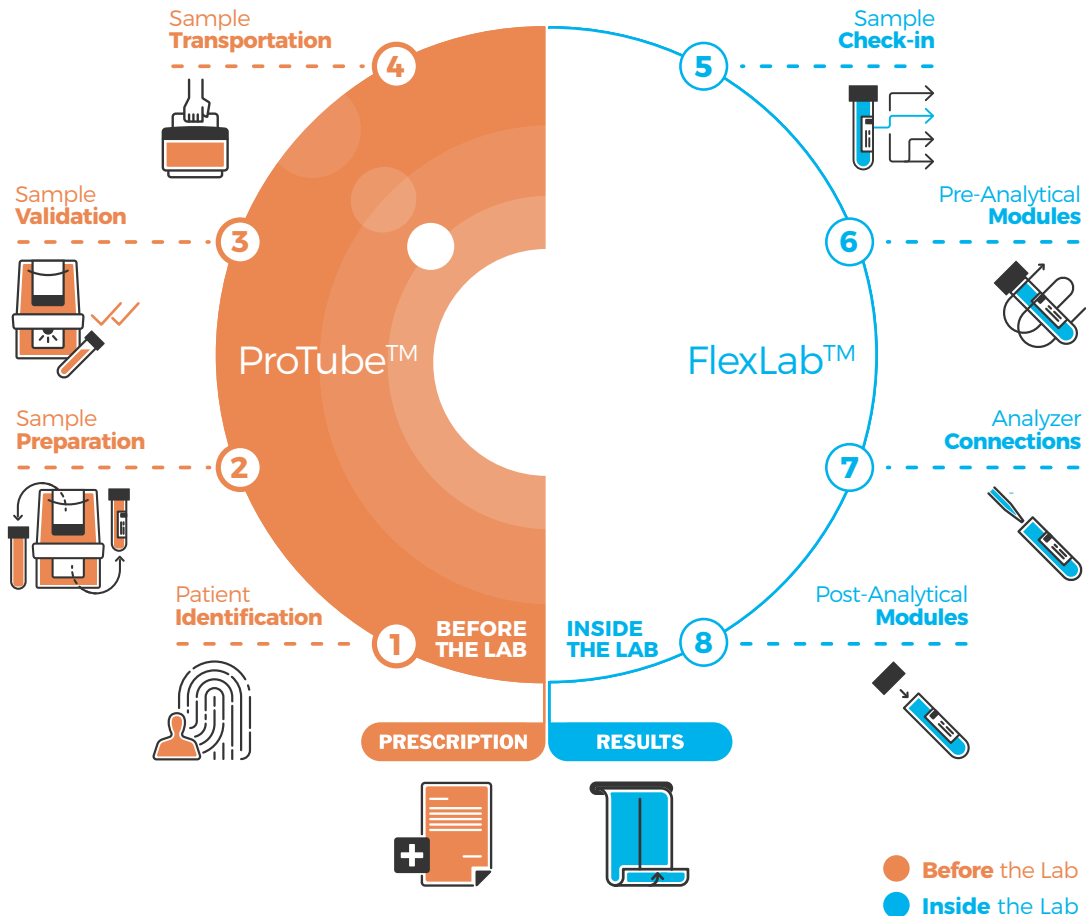
EFLM - COLABIOCLI

Compliant with Joint Recommendation of EFLM - COLABIOCLI for Venous blood sampling



Built to advance the Total Testing Process

ProTube™, in combination with Inpeco's Total Laboratory Automation solution FlexLab™, enables **open system automation** with **full sample traceability** across the Total Testing Process - for **validated test results** and **increased productivity**.



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