

ACLTOP[®]

FAMILY

TRUE STANDARDIZATION through hemostasis innovation.



One standardized product line – greater flexibility to meet your hemostasis testing needs.

The **ACL TOP Family** is a complete line of analyzers all designed with the same high standards of operation and functionality to meet the needs of your hospital and lab—whatever the size. Whether running routine or highly specialized assays, the ACL TOP Family provides “Testing-Process Automation” in a range of instruments ideal for mid-volume labs through fully integrated high-volume Laboratory Automation Systems. Regardless of your hemostasis testing needs, the ACL TOP Family assures consistent high-quality results.

All ACL TOP analyzers feature:

- Same reagents
- Same software
- Same results
- Same consumables
- Same interface

ACL TOP 500 CTS

Highly automated testing processes in routine, mid- to high-volume labs and specialty labs.



ACL TOP 700

High throughput and full automation for routine, high-volume and specialty labs.



ACL TOP 700 CTS

Added safety in routine, high-volume and specialty labs with Closed-Tube Sampling (CTS) feature.



ACL TOP 700 LAS

Maximum flexibility and efficiency, connected to Laboratory Automation Track.





Instrumentation Laboratory's ACL TOP Family offers complete disease-state management through a comprehensive panel of HemosIL[®] assays.

A broad test menu gives you a complete solution for both routine and specialty testing. And all ACL TOP instruments offer the same reagents for true standardization throughout the lab.

HemosIL Assays for the ACL TOP Family

| | | |
|---|--|---|
| <p>General Screening and Anticoagulant Monitoring</p> <p>PT APTT Fibrinogen Clauss Thrombin Time Hepatocomplex* Pro-IL-Complex* Liquid Heparin (one-stage) Heparin (two-stage)</p> | <p>Antiphospholipid Syndrome</p> <p>Silica Clotting Time LAC Screen/Confirm</p> | <p>Thrombophilia</p> <p>Antithrombin Protein C (Chromogenic) Protein C (Clotting) Free Protein S (Antigenic) Free Protein S (Clotting) FV Leiden (APC-R V) Homocysteine ThromboPath*</p> |
| <p>D-Dimer</p> <p>D-Dimer HS 500* D-Dimer 500* D-Dimer HS D-Dimer</p> | <p>von Willebrand Disease</p> <p>VWF Antigen VWF Activity</p> | <p>Fibrinolysis</p> <p>Plasminogen Plasmin Inhibitor</p> |

Certain assay applications are currently under development and pending validation.
*Not available in all countries.

“Testing-Process Automation” and Superior Performance Across All ACL TOP Systems

The ACL TOP Family of analyzers brings true innovation and automation to the hemostasis lab. Process more samples in less time and meet the demands of your fast-paced lab with minimal operator interference.

Full automation

Analyzer Automation

- Closed-Tube Sampling feature via cap-piercing (optional)
- Barcoded reagents
- Continuous onboard stability monitoring of reagents
- Automatic frequency execution of QC
- Rerun and reflex testing capabilities
- Fully automated reporting of factor assays with Parallelism
- Auto-verification and uploading of results

Laboratory Automation

- Follows CLSI Guidelines for “Point-in-Space” Interface (Auto 1 – 5)
- Open system compatible with most Laboratory Automation Track Systems
- Eliminates need for costly and slow robotic interface

Continuous operation

- Continual loading and unloading of samples and reagents via racks with no system interruption
- Uninterrupted cuvette loading
- Uninterrupted waste disposal

Fast turnaround

- Up to 360 PT/hour
- PT from standby in < 3 minutes
- Samples loaded on any rack, in any position, at any time, including STAT

Simple maintenance

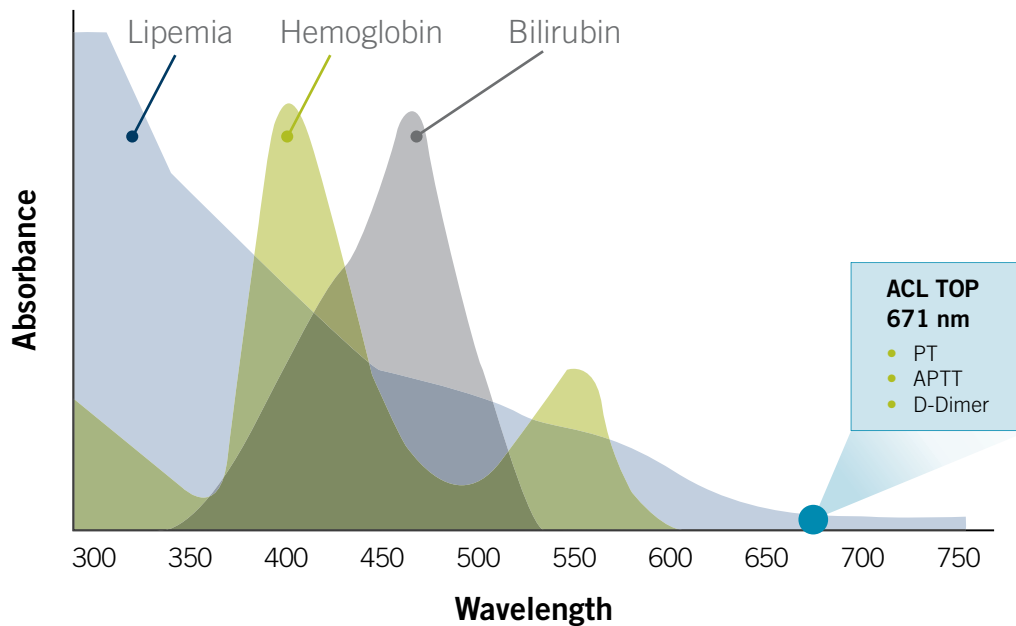
- Five minutes daily maintenance, ordered by user and performed by system
- “Maintenance overdue” warnings
- Remote instrument diagnostics and troubleshooting via web interface in real time* (optional)

*Not available in all countries.



Advanced optical system offers superior accuracy and efficiency.

- Wavelengths optimized for minimal interferences from known contaminants for the most accurate, flexible and rapid performance
- Multiple- and independent-reading channels
- Simultaneous reading of multiple wavelengths
- Clot curve outputs for independent verification and validation of results

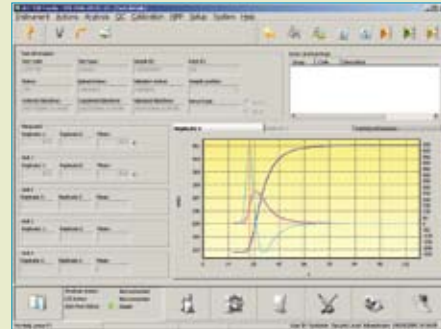


- ▶ Although samples may contain interferences (e.g., Bilirubin, Hemoglobin, Lipemia), the ACL TOP Family of Hemostasis Testing Systems reads at 671 nm, outside the range of optical interferences for several key and routine assays (e.g., PT, APTT, D-Dimer).



Clot Signature Curves for superior performance and quality reporting

- View patient samples, QC and calibrations
- Clot curves illustrate the reaction readings occurring within a cuvette, valuable in analyzing abnormal results
- Waveforms, generated exclusively from an optically based system, offer superior performance and quality reporting



Clot Signature Curves illustrate the clotting reaction of a sample over time (using first and second derivative mathematical models).

State-of-the-art factor assay testing

- Multi-point calibration with direct dilution
- One calibration for the entire working range
- Double calibration algorithms, including polynomial math models
- Zero calibration point for highest accuracy at very low factor activity
- Automatic multiple dilutions for Factor Parallelism
- Graphical display and data checks to aid in the identification of factor inhibitors



Patient Sample Report, void of factor inhibitors. The Parallelism curve (prediluted patient sample) runs parallel to the calibration curve.



Patient Sample Report, containing a factor inhibitor. The Parallelism curve (prediluted patient sample) intersects with the calibration curve.

The ACL TOP Family — Standardization with Ultimate Simplicity and Flexibility

Standardization across every ACL TOP analyzer

- Common reagents and consumables
 - Ensures same results across different labs
 - Optimizes purchasing and inventory management
- Identical software and user-interface
 - Eliminates multiple instrument training
 - Facilitates sharing of resources within hospital networks
 - Supports standardization of lab practices

Complete assay panel with reliable and reproducible results

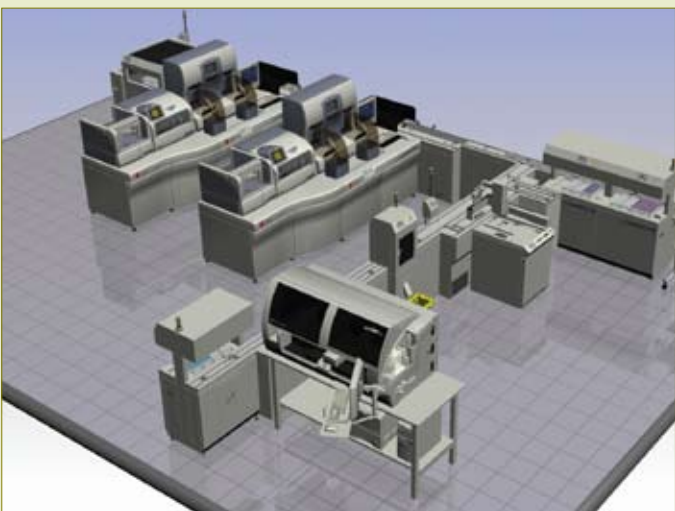
- General Screening and Anticoagulation Monitoring
- D-Dimer
- Thrombophilia
- Antiphospholipid Syndrome
- Coagulation Factors
- von Willebrand Disease
- Fibrinolysis

Simplicity and efficiency through automation

- Simplified and efficient STAT sample processing
- Automated functions
 - Reagent management
 - QC
 - Maintenance
- Remote diagnostics

Fully customizable for any size lab

- User-configurable settings
 - Test definitions, auto-verification, auto-rerun, auto-reflex, test profiles, QC profiles
- Cap-piercing option
- Laboratory Automation System option



- ▶ **ACL TOP 700 LAS easily integrates into most Laboratory Automation Track Systems**

ACL TOP Family Technical Specifications

| Test menu | Clotting, chromogenic and immunological assays | | |
|---|--|---|--|
| System configurations | ACL TOP 700 ACL TOP 700 CTS ACL TOP 500 CTS ACL TOP 700 LAS | Open-Tube Sampling Closed-Tube Sampling (cap-piercing) Compact-sized with Closed-Tube Sampling Laboratory Automation System compatibility (off-board sampling) | |
| Samples onboard | ACL TOP 700 ACL TOP 700 CTS ACL TOP 500 CTS ACL TOP 700 LAS | 120 120 80 Continuous from LAS track or 90 front-loaded | |
| Reagents onboard | ACL TOP 700 ACL TOP 700 CTS ACL TOP 500 CTS ACL TOP 700 LAS | 60 60 40 60 | |
| Patient samples results database | 20,000 samples | | |
| Throughput | ACL TOP 700 | PT tests/hr APTT tests/hr PT and APTT tests/hr | 360 (360 samples/hr) 320 (320 samples/hr) 330 (165 samples/hr) |
| | ACL TOP 700 CTS | PT tests/hr APTT tests/hr PT and APTT tests/hr | 270 (270 samples/hr) 270 (270 samples/hr) 260 (130 samples/hr) |
| | ACL TOP 500 CTS | PT tests/hr APTT tests/hr PT and APTT tests/hr | 240 (240 samples/hr) 180 (180 samples/hr) 180 (90 samples/hr) |
| | ACL TOP 700 LAS | Throughput from the LAS Track is dependent upon factors such as LAS Track configuration and settings | |
| Dimensions (w x d x h) | ACL TOP 700 ACL TOP 700 CTS ACL TOP 500 CTS ACL TOP 700 LAS | 151 cm x 87 cm x 73 cm 151 cm x 87 cm x 73 cm 110 cm x 82 cm x 73 cm 188 cm x 87 cm x 162 cm (includes integrated table) | |
| Weight | ACL TOP 700 ACL TOP 700 CTS ACL TOP 500 CTS ACL TOP 700 LAS | 150 kg 160 kg 141 kg 184 kg (includes integrated table) | |

At IL, we are passionate about bringing the most innovative solutions to hemostasis testing. Through our ACL products, we offer a variety of the highest quality instruments, all complemented by a full panel of HemosIL assays and supported by IL's worldwide technical team. But more than just a broad hemostasis testing offering, we give you our commitment to continuous enhancements through constant innovation.

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