

ACL* 7000 Coagulation System

Fully-Automated Analyzer for Affordable D-Dimer Testing

"By running the IL Test D-Dimer on the ACL 7000, we are able to deliver highly accurate, quantitative results."

P.J. Crouch, laboratory manager at Kremmling Memorial Hospital District, Colorado.

The ACL 7000 is a fully automated system using advanced robotics and proven technology—such as centrifugal analysis and nephelometry—to ensure precision and accuracy in coagulation analysis. This system offers a full range of testing capabilities for clotting, chromogenic and immunoturbidimetric assays, including D-Dimer.

Superior Precision

The ACL 7000 uses parallel processing technology for automation, precision and economy.

Plus, this system utilizes solid-state nephelometry to provide 1100 consecutive data points for every clotting curve. Within a run, typical analytical precision (CV) is $\leq 1\%$ for PT and $\leq 2\%$ for APTT when using IL reagents with fresh plasma.

Automated Simplicity

Building on a great tradition, the ACL 7000's microprocessor-controlled, positive-displacement fluidics system minimizes manual pipetting of test samples and all reagents. The simplicity of the fluidics system design also reduces operating expenses.

An interactive video display guides you every step of the way with simple, straightforward choices and instructions, so that even the most sophisticated procedures are easy to perform.

Faster Turnaround for Any Test Selection

Computer-based centrifugal analysis allows an ACL system to analyze up to 18 test samples at a time in each 20-cuvette rotor. The average cycle takes approximately 7.5 minutes.



Combination test selections can provide PT, APTT and fibrinogen results on eight samples in less than ten minutes. These eight samples are loaded only once to produce a maximum of 24 test results and 32 additional optional calculations.

With automatic standby and no reagents to swap for basic tests, you are prepared for a STAT, at any time. No priming of test reagents is ever required. If reagents are already on-board, testing can begin immediately without further setup. To switch from PT to D-Dimer, only the reagent reservoirs are exchanged on the instrument. This allows you to perform a D-Dimer test in less than 10 minutes.

Random Programming

This feature enables you to download test requests from the host or program directly into your database. Only the tests you request will be executed. You can choose from a wide range of profiles with 10 possible combinations.

Barcode Reader

The ACL 7000 is equipped with the internal barcode reader allowing automatic scanning of test tubes for ease of use and sample identification.



Economical Operation

IL's centrifugal technology uses micro reagent and sample volumes (less than 150µL of reagent required for most tests). Reagent savings, combined with reduced labor requirements make the cost of the ACL 7000 an affordable solution.

Automated Maintenance

The ACL 7000 requires very little maintenance, and is greatly simplified by the Maintenance Program. It displays recommended maintenance intervals and documents the most recent date a task was performed.

100% Sample/Reagent Monitoring

The ACL 7000 provides automatic monitoring of all sample and reagent volumes. All reagents are checked to assure that even the last sample mixture contains the needed level of reagents.

IL Test* Menu

Clotting:

Prothrombin Time (PT)
Activated Partial Thromboplastin (APTT)
Fibrinogen (PT-FIB)
Thrombin Time (TT)
Factor Assays (II, V, VII, VIII, IX, X, XI, XII)
Protein C (ProClot)
Protein S (Pro S)
APC Resistance, Factor V (Leiden)
Lupus Anticoagulant (LAC), Screen and Confirm Assays

Chromogenic:

Anti-thrombin
Heparin
Plasminogen
Plasmin Inhibitor
Protein C

Immunoturbidimetric:

D-Dimer

ACL 7000 Specifications

refer to attached text

*ACL and IL Test is a trademark of Instrumentation Laboratory.

ACL 7000 Specifications

ACL 7000 System	Part No. 970006	
Throughput		
PT/Fibrinogen	175/hr	
APTT	110/hr	
Optics		
Coagulometric channel	Light-emitting diode, 660nm by Nephelometry	
Chromogenic channel	Halogen lamp, 405 nm	
Immunoturbidimetric channel	Halogen lamp, 405 nm	
Total Volumes		
Reagents	Sample Volumes	Reagent Volumes
PT/Fibrinogen	60 uL	110 uL
APTT	63 uL	63 uL
D-Dimer	30 uL	120 uL Buffer / 100 uL Latex
Heparin	60 uL	60uL Enzyme / 50 uL Substrate
Operator Interface		
Video Display	9" with white phosphor	
Keyboard Impermeable	Alpha/numeric	
Printers Onboard	21 column thermal graphics; external printer: optional	
Data Output	2 RS232C interface ports	
Analytical Characteristics		
Imprecision (CV)	Within Rotor	Between Rotors
PT	≤ 1%	≤ 1.5%
Fibrinogen	≤ 6%	≤ 8%
APTT	≤ 2%	≤ 2%
Functional Ambient Conditions		
Temperature	15 - 32° C	
Reagent reservoir 1 & 2	13.5 ± 1.5°C	
Measuring chamber	37 ± 1°C	
Relative humidity	Up to 85% (noncondensing)	
Barometric pressure	500 - 1060 mbar	
Altitude	Up to 3,000 meters	
Electrical Characteristics		
Frequency (nominal)	Voltages (nominal)	
50 / 60 Hz + 10%	100 V, 110-125 V, 220 - 240 V	
Power Consumption @ 300 watt		
Dimensions		
Height	17.7 in.	45 cm
Width	29.5 in.	75 cm
Depth	27.17 in.	69 cm
Weight	114 lbs.	52 kg
Databases		
Patients	2400 test results	
Q.C.	100 files	
Bar Code Reader		
On board	Codes 128, 39, 93, Codabar, Interleaved 2 of 5, MSI, Plessey	



Marketed and Distributed in North America by DiaPharma Group, Inc.*



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