

ACL™ 100 and ACL™ 1000

The ONLY fully automated clot-endpoint analyzers in their price range!

Automated simplicity

The ACL 100 and ACL 1000 have many automated features, including sample and reagent pipetting, analysis, calculation of results – and even maintenance.

The ACL systems' microprocessor-controlled, positive-displacement fluidics system eliminates manual pipetting of test samples and all reagents. No other coagulation system in its price range offers this time saving feature. The simplicity of the fluidics system design also reduces operating expenses.

Only three keys are needed for basic commands and responses. 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.

The ACL 100 and ACL 1000 also use the same parallel processing technology as the other ACL systems, resulting in the same inherent automation, precision and economy.

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, leaving one cuvette for reference solution and another for a calibration plasma or pooled control sample.

Combination test selections available in both the duplicate and single menus, can provide PT, APTT and fibrinogen results on four samples in less than ten minutes. These four samples are loaded only once to produce a maximum of 24 test results and 32 additional optional calculations. All of these results are compared to a normal pool sample. Preparation time is minimal compared to other systems available for the smaller laboratory.

With automatic standby and no reagents to swap for basic tests, you are prepared for any type of STAT, any time. No priming of test



reagents is ever required by the ACL systems. If reagents are already on-board, testing can begin immediately without further setup. To switch from PT to TT, only the reagent reservoirs are exchanged on the instrument.

The ACL 100 and ACL 1000 systems also give you automated factor assays with procedures so easy and convenient your staff will enjoy doing them.

Superior precision

The ACL 100 and ACL 1000 use 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. Multiple reportable results can be produced for every clot endpoint.

An automatic, built-in system precision program maintains a record of the run-to-run precision of each pool for the basic clotting tests.

Multi-level sensors control all automatic testing variables. The ACL system's computer automatically adjusts critical variables which would otherwise cause imprecision.



ACL™ 100 and ACL™ 1000 Specifications

Economical operation

IL's centrifugal technology uses micro reagent and sample volumes (less than 100µL of reagent required for most tests). Reagent savings, combined with reduced labor requirements make the cost of the ACL 100 and ACL 1000 easy to justify.

Automated maintenance

The ACL systems require very little maintenance, and are greatly simplified by the Maintenance Program. It displays recommended maintenance intervals and documents the most recent date a task was performed. Maintenance records can be printed anytime, which reduces time consuming paperwork.

100% sample/reagent monitoring

ACL systems are unique in providing automatic monitoring of all sample and reagent volumes. Missing samples trigger a "NO SAMPLE" result to provide the operator with useful information. All reagents are checked at the end of pipetting to assure that even the last sample mixture contains the needed level of reagents.

IL Test™ Menu

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

ACL 100 System	Part No. 810096	
ACL 1000 System	Part No. 910096	
Test selections	PT-Fibrinogen, APTT, TT, factor assays	
Optics	Nephelometric channel High intensity LED (660 nm wavelength)	
Fluidics	Maximum Volumes	Usable Volumes
Macro reservoirs	10 mL	8mL
Micro reservoirs	2.0 mL; TT = 2.5 mL	1.5 mL; TT = 2.0 mL
Sample cups – 0.5 mL	0.5 mL	0.4 mL
Total Test Volumes Used	Sample Volumes	Reagent Volumes
PT-fibrinogen	72µL	110µL
APTT	75µL	63µL
Calcium chloride	–	53µL
Operator interface	9" diagonal green phosphor Touch sensitive impermeable keypad 21 column thermal graphics printer RS232C interface connector - DTE	
Video display		
Data input		
On-board printer		
Data output		
Blank times	PT – FIB – 4 sec; APTT – 9 sec; TT – 2 sec	
Analytical Characteristics		
Imprecision in analysis (CV)	Within Rotor	Between Rotor
PT	≤ 1%	≤ 1.5%
FIB	≤ 6%	≤ 8%
APTT	≤ 2%	≤ 2%
Functional ambient condition		
Temperature	15 – 32° C	
Reagent reservoir 1 and 2	13.5 ± 1.5° C	
Measuring chamber	37 ± 0.25° C	
Relative humidity	Up to 85% noncondensing	
Barometric pressure	700-1060 mbar	
Electrical characteristics		
Frequency	Voltages (nominal)	
50/60 Hz ± 3%	100 V, 110 – 125 V AC, 220 – 240 V AC (± 10%)	
Dimensions		
Total height	17.7"	45cm
Height of analysis surface	8.3"	21cm
Width	29.5"	75cm
Depth	24.8"	63cm
Weight (approx)	114 lbs.	52kg
Sample trays		
ACL 100	Cups: 2.0 mL, 0.5 mL	
ACL 1000	Cups: 2.0 mL, 0.5 mL	
5.0 Sample Tray, standard	Primary Tubes: 13 x 75: 5.0 mL (4.15 mL blood volume)	
3.5 Sample Tray	Optional: 13 x 75: 3.5 mL (3.15 mL blood volume)	
Bar code scanner		
ACL 1000, optional	Codes 128, 39, 93, Codabar, Interleaved 2 of 5, MSI, Plessey	



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